magicolor® 7300 Reference Guide

1800736-001B

EDNord - Istedgade 37A - 9000 Aalborg - telefon 96333500

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Making Connections

In Section 1...

- Chapter 1.1 — “Connecting to Windows Operating Systems”
  Instructions for connecting your printer to a PC using parallel, USB, and Ethernet connections.
- Chapter 1.2 — “Connecting to Macintosh Operating Systems”
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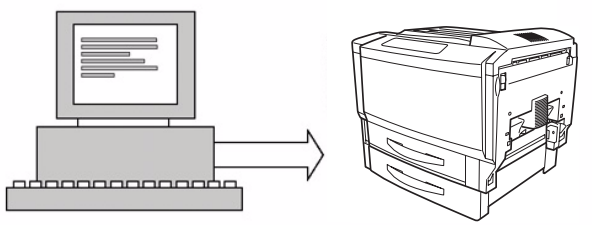
1.1

Connecting to Windows Operating Systems

Introduction

This chapter guides you through the installation of your printer in Windows environments. The two most common ways to connect your printer to a PC are using either a local connection (parallel or USB interface) or using a network connection.

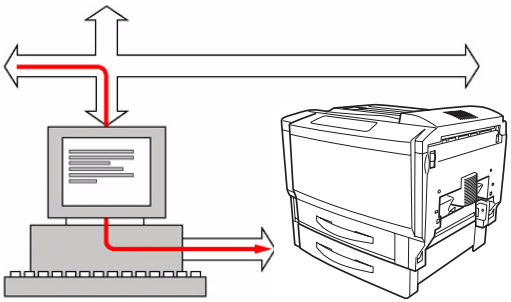
Local Connections



Local connection

A local connection is accomplished by connecting the workstation and the printer directly by means of a parallel or USB interface. These interfaces support only a one-to-one connection, which means that the workstation exclusively “owns” the connection to the printer.

Some network environments allow the access of a printer locally attached to one of the workstations. Although all users attached to the network may use the printer, the (print) data flow to that particular workstation may affect its normal use. In most of these cases, this workstation is exclusively needed as a print server and cannot be used as a normal workstation anymore.



Local connection—shared over network

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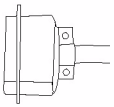
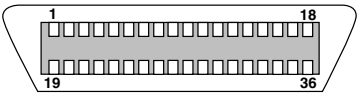
Parallel Interface





Pin	Description	Pin	Description
1	Strobe (-)	19	Return
2	Data_1	20	Return
3	Data_2	21	Return
4	Data_3	22	Return
5	Data_4	23	Return
6	Data_5	24	Return
7	Data_6	25	Return
8	Data_7	26	Return
9	Data_8	27	Return
10	Acknowledge (-)	28	Return
11	Busy (+)	29	Return
12	Printer Error (+)	30	Return
13	Select	31	Iprime
14	Autofeed	32	Fault (-)
15	Reserved	33	Reserved
16	Ground	34	Reserved
17	Ground	35	Reserved
18	Vcc Test	36	Select In

Making the Parallel Connection

Connecting your printer locally to your PC using a parallel connection requires two steps.

1 Connect your printer to your PC.

Connect your printer to your PC by means of a parallel cable. The cable must not be longer than 6.5 feet (2 meters).

2 Install the KONICA MINOLTA PostScript Driver for Windows.

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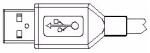
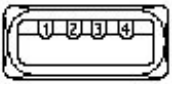
USB Interface 



Pin	Name	Description
1	Vcc	+5V DC
2	D-	Data -
3	D+	Data +
4	Gnd	Ground

Making the USB Connection

Make sure your operating system (Win98SE and above, not including Windows NT4) supports USB and make sure USB drivers for the port are already installed on your operating system (Start>Settings>Control Panel>System found on the Device Manager tab). For Windows XP, select the hardware tab, then click the Device Manager button.

These drivers are provided on your Windows CD-ROM, not on the magicolor 7300 *Software Utilities* CD-ROM.

1 Turn on the PC and the printer and make sure the message window displays `READY`.

2 Plug one end of the USB cable into the PC and the other into the printer USB port.

The operating system displays New Hardware Found, *and lists* USB Device.

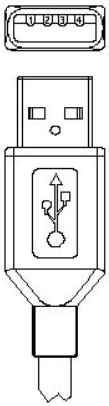
The Add New Hardware Wizard listing KONICA MINOLTA Printing Support appears.

3 Select **Next**.

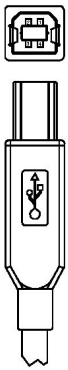
4 Make sure that `Search for the Best Device, Recommended` is selected, and then select **Next**.

5 Select **Specify A Location:**.

"A" Plug (To PC)



"B" Plug (To Printer)



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6 Select **Browse**.

7 On the *Software Utilities* CD-ROM, browse to \Drivers\Platform\ps\Language, and select **Next**. For example, Driver\Windows 2000\ps\English.

8 Select **Next**, and then select **Finish**.

9 On the screen displaying `Please insert disk labeled KONICA MINOLTA Advanced Level 3 Driver`, select **OK**, and browse back to the directory selected in step 7, and then select **OK**.

Some Windows Operating Systems may require you to repeat step 9 as Plug and Play driver files are installed.

10 Select **Finish**.

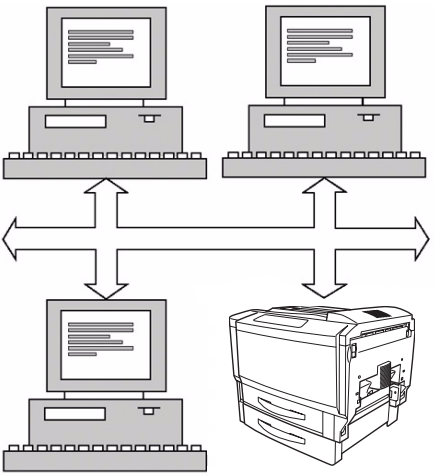
The Plug and Play installation is completed.

11 When you have finished, remove the CD-ROM and store it in a safe place.

12 Customize the driver settings for your printer's configuration. Refer to the printer driver's online help.

TCP/IP Connections

To connect your printer in a TCP/IP network environment, you must make sure that the internal network addresses, subnet, and gateway in the printer have been set.



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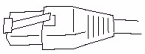
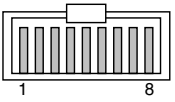
Ethernet Interface





Pin	Description
1	Transmit Data (+)
2	Transmit Data (-)
3	Receive Data (+)
4	Reserved
5	Reserved
6	Receive Data (-)
7	Reserved
8	Reserved

The standard Ethernet interface is an RJ45 type of connector, capable of transmission speeds from 10 Mbit/s up to 100 Mbit/s.

The above illustration shows the receptacle of the Ethernet interface on the interface panel of the printer.

Making the Ethernet Connection

1 Set the Internet address.

This setting must contain a unique IP address. Printers are shipped with a preset IP address. In most cases you may want to modify this address, so it doesn't conflict with any other IP address present in your network or in networks attached.

Your network system administrator should assign the IP address.

You need the printer's IP address when setting up the port on your workstation.

***With DHCP**—If your network supports DHCP (Dynamic Host Configuration Protocol), your IP address will be automatically assigned by the DHCP server when you turn on your printer.*

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***Without DHCP**—If you are not using DHCP, you may set the IP address in one of two ways:*

- Use the KONICA MINOLTA installation software. Refer to the *Software Utilities* CD-ROM.
- Set the printer's IP address manually.

Attention

You should always notify your network's administrator before changing the printer's IP address.

a Turn on your printer.

b On the control panel, change the IP address of your printer through the Interface/Ethernet/IP Address menu on the control panel:

Press Key	(Until) Display Reads
	READY MAGICOLOR 7300
Menu Select ↵	MAIN MENU PRINT MENU
▶	MAIN MENU INTERFACE MENU
Menu Select ↵	INTERFACE MENU ETHERNET
Menu Select ↵	ETHERNET IP ADDRESS
Menu Select ↵	IP ADDRESS *XXX.XXX.XXX.XXX*
Use the ▶ and ◀ keys to move to each of the four number triplets. Use the ▲ and ▼ keys to increase or decrease each number.	
Menu Select ↵	IP ADDRESS *XXX.XXX.XXX.XXX*
Menu Select ↵	ETHERNET IP ADDRESS
	PLEASE WAIT
	READY MAGICOLOR 7300

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c Verify the IP address by printing a configuration page.

Press Key	(Until) Display Reads
	READY MAGICOLOR 7300
Menu Select ↵	MAIN MENU PRINT MENU
Menu Select ↵	PRINT MENU STATISTICS PAGE
▶	PRINT MENU CONFIGURATION
Menu Select ↵	PROCESSING
	READY MAGICOLOR 7300
A configuration page prints.	

4 Set the subnet mask address (Interface/Ethernet/Subnet Mask menu on the control panel).

The subnet mask allows you to limit access to your printer (for example, departmental divisions). The following table shows some examples.

Subnet Mask	User Access
000.000.000.000	No limitations
255.255.255.xxx	Only users (PCs) having a subnet mask of 255.255.255.xxx (default) have access to the printer (the last triplet of the address xxx, doesn't affect access and can be any value).

5 Set the router/gateway address (Interface/Ethernet/Gateway menu on the control panel).

If you have a router/gateway in your network and you allow users outside your network environment to print on your printer, you may need to enter the router/gateway's IP address here.

6 If needed, configure additional printer settings.

Although the settings mentioned above are sufficient for normal operation, you might want to change other settings in the TCP/IP menu to accommodate your local requirements.

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7 Connect your printer to the network.

Attach your printer to the network by plugging the network RJ45 connector into the RJ45 receptacle on the interface panel of your printer.

If you experience problems locating the printer on your network, see "Checking TCP/IP Connections" below.

8 Install the Crown Print Monitor+.

In a TCP/IP environment, you should install the Crown Print Monitor+ and the printer driver on each PC having network access to your printer.

9 Install the printer driver.

10 When you have finished, remove the *Software Utilities* CD-ROM, and store it in a safe place.

What's a Print Monitor?

A print monitor is software that enables the connection between software applications and the network port on your PC. While some versions of Windows come with a print monitor, the Crown Print Monitor+ that came with your printer was designed specifically for your printer. It allows the transportation of print data using TCP/IP protocol for serverless printing.

Checking TCP/IP Connections

Verify that the communication to the printer is working properly by "pinging" the printer.

1 From the Start button menu, select **Run**, and then at the prompt, type `command`

2 Select **OK**.

3 From the command line, type `ping <IP Address>`

For example,
`ping 161.33.128.5`↵

Why Ping?

The Ping command sends a small packet of information to the IP Address and waits for a return packet. If the connections and addresses are good, a packet of information is returned to the sending workstation.

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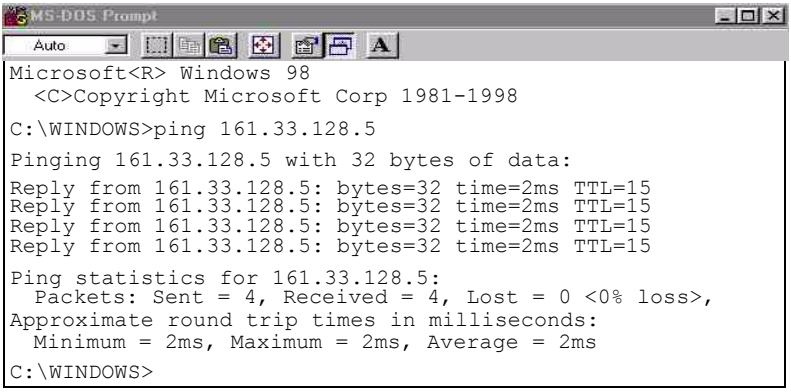
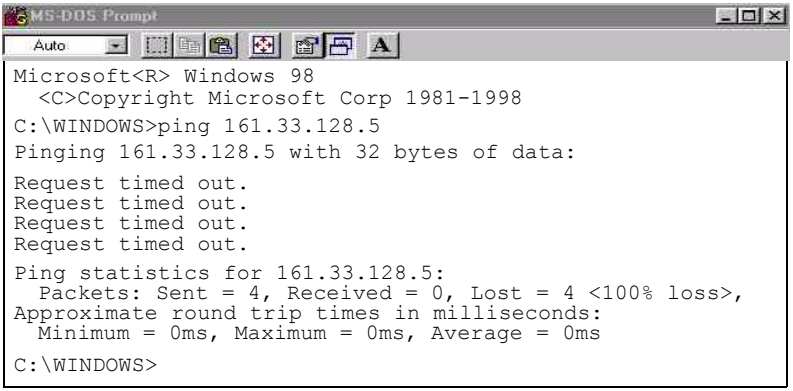
If the printer connection is working correctly, your screen displays printer information similar to the following:


MS-DOS Prompt
Auto
Microsoft<R> Windows 98
<C>Copyright Microsoft Corp 1981-1998
C:\WINDOWS>ping 161.33.128.5
Pinging 161.33.128.5 with 32 bytes of data:
Reply from 161.33.128.5: bytes=32 time=2ms TTL=15
Reply from 161.33.128.5: bytes=32 time=2ms TTL=15
Reply from 161.33.128.5: bytes=32 time=2ms TTL=15
Reply from 161.33.128.5: bytes=32 time=2ms TTL=15
Ping statistics for 161.33.128.5:
Packets: Sent = 4, Received = 4, Lost = 0 <0% loss>,
Approximate round trip times in milliseconds:
Minimum = 2ms, Maximum = 2ms, Average = 2ms
C:\WINDOWS>

If your screen displays information similar to the following, you may have bad network cabling or connectors attached to the printer.


MS-DOS Prompt
Auto
Microsoft<R> Windows 98
<C>Copyright Microsoft Corp 1981-1998
C:\WINDOWS>ping 161.33.128.5
Pinging 161.33.128.5 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 161.33.128.5:
Packets: Sent = 4, Received = 0, Lost = 4 <100% loss>,
Approximate round trip times in milliseconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\WINDOWS>

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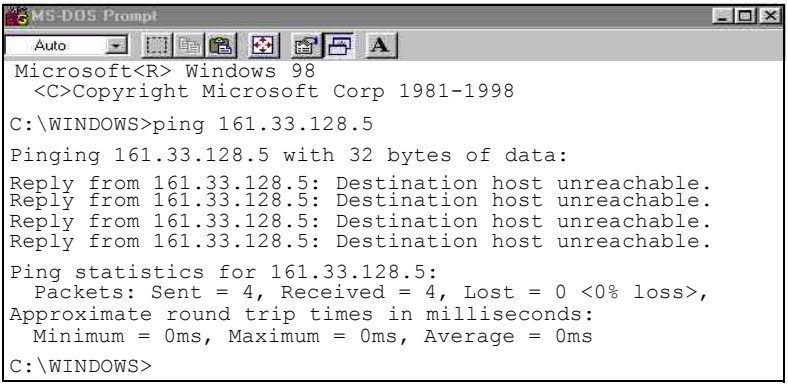
Incorrect IP Addresses can cause errors similar to ones shown below:


MS-DOS Prompt
Auto
Microsoft<R> Windows 98
<C>Copyright Microsoft Corp 1981-1998
C:\WINDOWS>ping 161.33.128.5
Pinging 161.33.128.5 with 32 bytes of data:
Reply from 161.33.128.5: Destination host unreachable.
Reply from 161.33.128.5: Destination host unreachable.
Reply from 161.33.128.5: Destination host unreachable.
Reply from 161.33.128.5: Destination host unreachable.
Ping statistics for 161.33.128.5:
Packets: Sent = 4, Received = 4, Lost = 0 <0% loss>,
Approximate round trip times in milliseconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\WINDOWS>

4 If error messages or “time-out” messages appear, check your network connections and the printer’s IP Address, and then try again.

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1.2

Connecting to Macintosh Operating Systems

Introduction

This chapter describes the steps for connecting your printer to a Macintosh system, using an Ethernet connection. There are three steps for making the connection.

1 Install the printer software.

2 Create the desktop printer (Macintosh OS 9) or the Printer Queue (OS X), which includes

- Physically connecting the printer
- Configuring the Zone Name

Once the printer is connected, you can download additional utilities, such as ICC Profiles and Pantone tables for use with specialized color printing.

Some Notes to Consider

- In the following sections, we assume that you are installing the software for the first time.
- You can connect to your printer by
  - A crossover Ethernet cable
  - Ethernet patch cables and an Ethernet hub

Macintosh OS 9—PPDs and Utilities Installation

OS 9 Software Installation

a Insert the *Software Utilities* CD-ROM in your Macintosh's CD-ROM drive.

If this screen does not appear, double-click the KONICA MINOLTA CD-ROM icon on your Macintosh desktop.

b Choose the **Next** button and then choose **Printer Setup**.

c Follow the instructions on the screen to install the magicolor 7300 PPD and utilities.

d After the PPD and utilities installation is complete, choose **Quit**.

e When the system software installation is complete, remove the *Software Utilities* CD-ROM from your CD-ROM drive and store it in a safe place.

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Manual PPD Installation for Macintosh OS 9 and Earlier

1 Download the PPD from the web site or copy it from the *Software Utilities* CD-ROM. If you downloaded the PPD from the web site, unstuff the PPD file.

2 Place the PPD on the Mactintosh's hard drive in System Folder/ Extentions/Printer Descriptions.

Place the PPD on the Mactintosh's hard drive(at the root level) in Library/ Printers/PPDs/Contents/Resources/en.lproj.

OS 9 Step 2. Creating a Desktop Printer

EtherTalk Connection

a You can connect via Ethernet.-Open the Chooser and select **Laser-Writer 8**.

When your printer boots up, it finds a default zone.

b Choose the **Create button. If** prompted, select the appropriate PPD for the magicolor 7300, and click **OK**. Configure any options you may have installed on your printer, and click **OK**.

A desktop printer icon will be created for your printer on the desktop.

LPR (TCP/IP) Connection

a You can connect via Ethernet in either of two ways:

- Plug one end of a crossover Ethernet cable into the Macintosh and the other into the printer's Ethernet port.
- Use Ethernet patch cables and an Ethernet hub. Plug one end of each patch cable into the hub, then plug the other end of one into the Macintosh and the other end of the second into the printer's Ethernet port.

b Locate the Desktop Printer Utility.

If you cannot locate it on your Macintosh hard disk, it can be found on your Macintosh's system CD-ROM.

c In the new desktop printer window, select Printer (LPR).

The setup window will open.

d In the PostScript Printer Description (PPD) File section, a generic printer icon will be displayed. Click on the **Change** button and select the PPD for the magicolor 7300.

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e In the LPR Printer Selection box, choose **Change** to specify your printer. Enter your printer's IP address for both Printer Address and Queue. Choose **Verify** to confirm a connection to your printer. Click **OK**.

f Click on the Create button. Name your printer, and click Save.

A desktop printer icon will be created on your desktop.

Section
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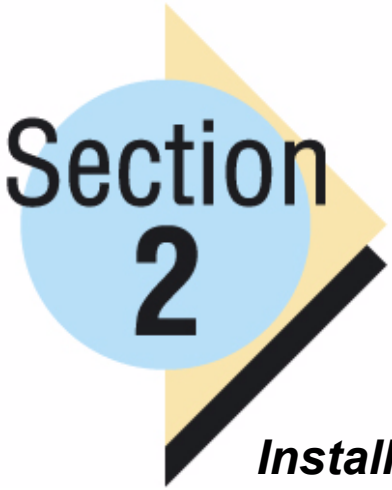

Installing Printer Software, Drivers, & PPDs

In Section 2...

- Chapter 2.1 — “Your Printer’s Operating System”
  Printer firmware download instructions.
- Chapter 2.2 — “Installing the Printer Driver on Windows XP”
  Installation of the PostScript driver and the PPD for your printer.
- Chapter 2.3 — “Installing the Printer Driver on Windows 2000”
  Installation of the PostScript driver and the PPD for your printer.
- Chapter 2.4 — “Installing the Printer Driver on Windows Me/98”
  Installation of the PostScript driver and the PPD for your printer.
- Chapter 2.5 — “Installing the Printer Driver on Windows NT4”
  Installation of the PostScript driver and the PPD for your printer.
- Chapter 2.6 — “PPDs and Utilities for Macintosh”
  Installation of the Mac PPD and utilities for your printer.
- Chapter 2.7 — “Linux Setup”
  Printing from Linux.
- Chapter 2.8 — “Connecting to NetWare 5.x/6.x”
  NDS setup using PCONSOLE and Admin.

Chapter Location

Chapter	Title	Begins on page...
2.1	“Your Printer’s Operating System”	21
2.2	“Installing the Printer Driver on Windows XP”	23
2.3	“Installing the Printer Driver on Windows 2000”	33
2.4	“Installing the Printer Driver on Windows Me/98”	43
2.5	“Installing the Printer Driver on Windows NT4”	51
2.6	“PPDs and Utilities for Macintosh”	59
2.7	“Linux Setup”	73
2.8	“Connecting to NetWare 5.x/6.x”	87

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2.1 Your Printer's Operating System

Your Printer's Operating System

Your printer's Operating System software resides inside the printer and is referred to as printer firmware. The printer firmware is stored in flash ROM on a Smart Media card.

Updating new printer firmware is performed via one of the printer's interfaces. When the printer firmware is downloaded to the printer, the printer recognizes the nature of the code and replaces the older firmware with the new one that is downloaded. After downloading, the printer restarts with the new printer firmware resident and active.

Printer Firmware Updates

From time to time, printer firmware updates are created to enhance or expand printer performance. If you should need to update your printer firmware, contact Technical Support. The *Service & Support Guide* on the *Documentation* CD-ROM provides contact numbers. For the current information globally, check www.konicaminolta.net/printer/.

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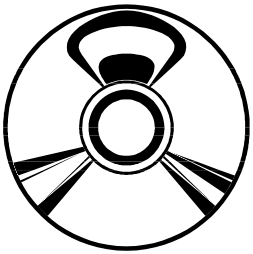
2.2 Installing the Printer Driver on Windows XP

KONICA MINOLTA PostScript Drivers

KONICA MINOLTA PostScript Drivers are available from the *Software Utilities* CD-ROM and from the Internet (www.konicaminolta.net/printer/). This chapter includes instructions for manually installing the printer driver using the Add Printer Wizard.



Installing from the CD-ROM

The *Software Utilities* CD-ROM has an automatic printer driver installer program. Simply insert the CD-ROM and follow the on-screen instructions for driver installation.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

After driver installation is complete, remove the *Software Utilities* CD-ROM and store it in a safe place.

You also have the option to manually install the printer driver located on the CD-ROM. See “Manually Installing the KONICA MINOLTA PostScript Driver on Windows XP” on page 25 for instructions.

Efforts to enhance the features and performance of your KONICA MINOLTA printer driver don’t stop when you purchase our product. We make every effort to bring you the very best, and as a result, occasionally update the printer driver software. For the latest printer driver, check your printer’s Support page on our website at printer.konicaminolta.net/support.

Downloading a Printer Driver from the Internet

Our Internet website (www.konicaminolta.net/printer/) contains the latest driver and support files for your printer. To download a printer driver, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and driver from the Drivers, PPDs, and Utilities listing.

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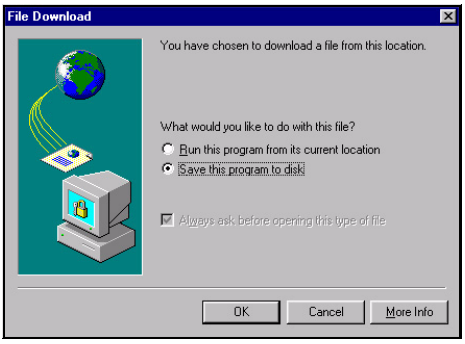
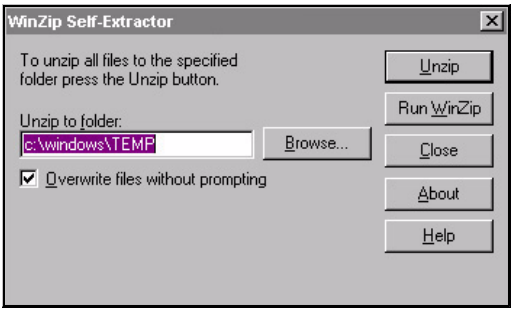
2 Select **Save this program to disk** when prompted. Save the download file to a new directory on your PC.

3 After the download is complete, browse to the new directory created, and double-click to open it.

4 Double-click on the .exe file that was downloaded.


File Download
You have chosen to download a file from this location.
What would you like to do with this file?
Run this program from its current location
Save this program to disk
Always ask before opening this type of file
OK
Cancel
More Info

The .exe is a self-extracting WinZip file that allows you to uncompress the installation files. Select ***Browse****, then locate and choose the directory created in step 2 above. Select* ***OK****, and then select* ***Unzip****.*



5 After the files are unzipped, close the WinZip Self-Extractor, and then continue with the installation steps described in the next section, beginning with step 2 on page 26.

Manually Installing the KONICA MINOLTA PostScript Driver on Windows XP

The following assumes that you are installing the KONICA MINOLTA PostScript Driver for Windows XP for the first time.

If you are using TCP/IP, make sure you have already installed the Crown Print Monitor+ first.

Installing the Printer Driver

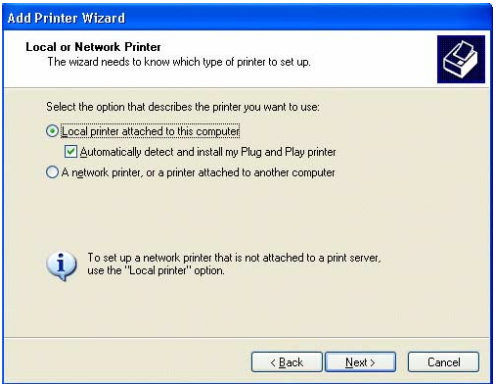
1 If the driver you are installing on a local level is on the *Software Utilities* CD-ROM, make sure that the CD-ROM is in your CD-ROM drive.

If the CD-ROM installation application starts, close the application before continuing.

2 From the Start menu, choose **Printers and Faxes**.

3 Select **Add a printer** from the Printer Tasks menu. The Add Printer Wizard starts. Follow the on-screen instructions.

4 Select local printer (you are attaching to a port, not to a printer attached to a server). Then select **Next**.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
< Back
Next >
Cancel

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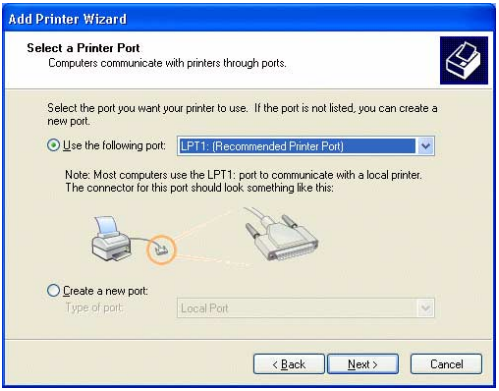
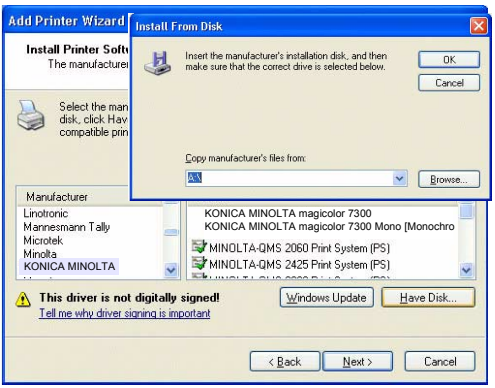
5 Choose the appropriate printer port.

For a local (parallel) connection, select LPTx:. For a USB connection, use USBxxx:.


Add Printer Wizard
Select a Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
LPT1: (Recommended Printer Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
Create a new port:
Type of port:
Local Port
< Back
Next >
Cancel

If your port is not listed, the port can be added after the driver installation (see "Adding a Crown Port after Crown Print Monitor+ Installation" on page 105 to create a new port).

6 Select **Have Disk**, then click **Browse**. Browse to the location of the driver (see the following table), select the .inf file, select **Open**, and then select **OK**.



Driver to be installed:	Browse to
Driver on CD-ROM	✇:\drivers\windows XP\ps\ (where ✇ is the letter of your CD-ROM drive)
Driver downloaded from Internet	New directory containing the downloaded, extracted files. Refer to step 2 of "Downloading a Printer Driver from the Internet" on page 24.

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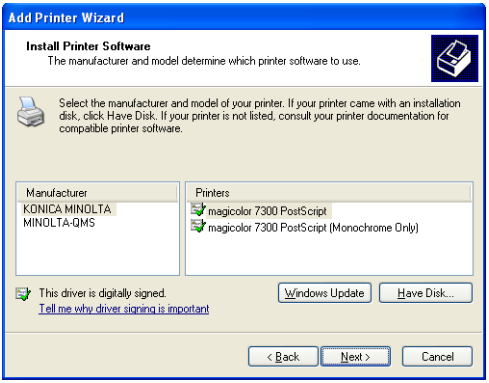
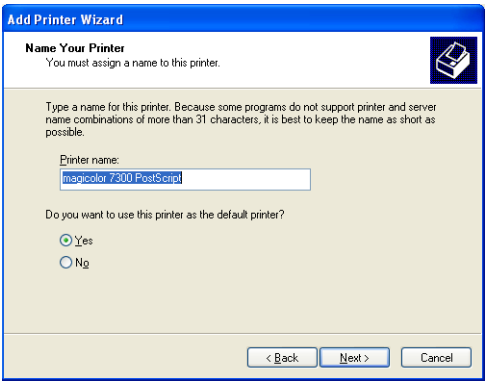
7 Choose your printer. Then select **Next**.

In some network settings, it may be desirable to limit the number of users that can print in color. Selecting **magicolor 7300 PostScript (Monochrome Only)** *installs the printer without color printing options.*


Add Printer Wizard
Install Printer Software
The manufacturer and model determine which printer software to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.
Manufacturer
KONICA MINOLTA
MINOLTA-QMS
Printers
magicolor 7300 PostScript
magicolor 7300 PostScript (Monochrome Only)
This driver is digitally signed.
Tell me why driver signing is important
Windows Update
Have Disk...
< Back
Next >
Cancel

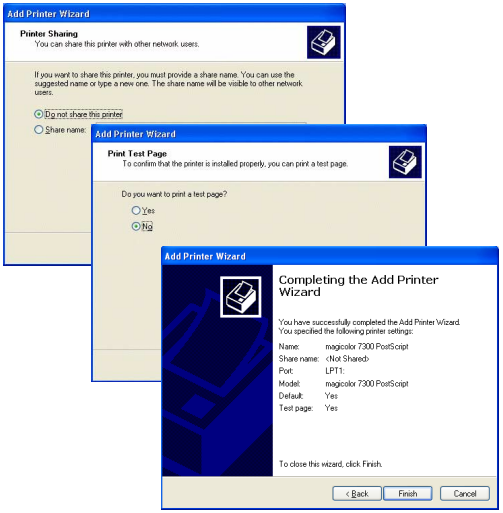
8 This screen allows you to rename the printer for your convenience and to set the printer as default printer. Select **Next**.


Add Printer Wizard
Name Your Printer
You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name:
magicolor 7300 PostScript
Do you want to use this printer as the default printer?
Yes
No
< Back
Next >
Cancel

9 Select **Next** twice, and then select **Finish**.

The Add Printer Wizard closes.

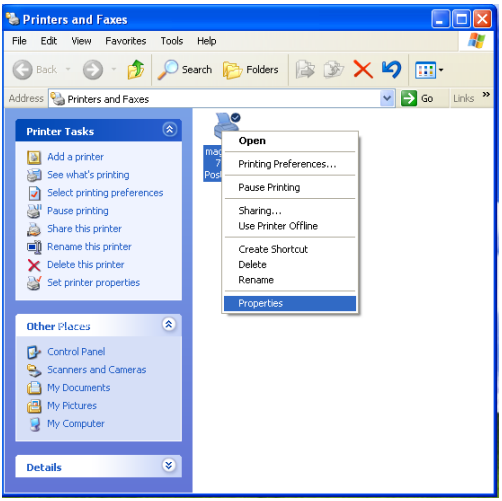
Do Not Share is automatically selected through the port.


Add Printer Wizard
Printer Sharing
You can share this printer with other network users.
If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.
Do not share this printer
Share name:
Add Printer Wizard
Print Test Page
To confirm that the printer is installed properly, you can print a test page.
Do you want to print a test page?
Yes
No
Add Printer Wizard
Completing the Add Printer Wizard
You have successfully completed the Add Printer Wizard.
You specified the following printer settings:
Name: magicolor 7300 PostScript
Share name: <Not Shared>
Port: LPT1:
Model: magicolor 7300 PostScript
Default: Yes
Test page: Yes
To close this wizard, click Finish.
< Back
Finish
Cancel

Customizing Driver Settings

1 From the Start menu, choose **Printers and Faxes**, and locate the (new) printer icon.

2 Click on the printer icon with the right mouse button and choose **Properties**.



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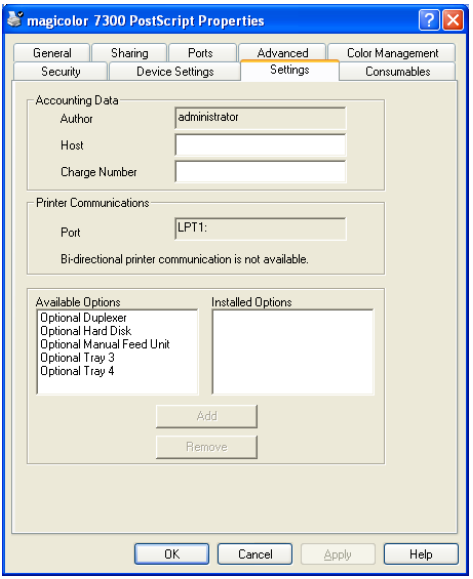
3 Select **Settings**.

In TCP/IP printing, this step is done automatically.

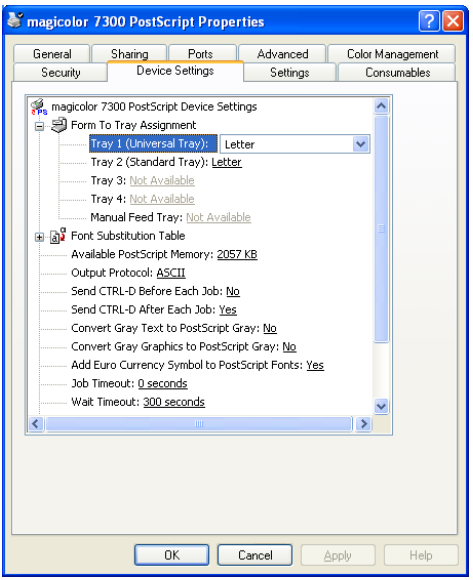


4 In this window, you may choose certain “options” available on your printer. To add an available option to the installed options list, select the option and then click **Add**. After making selections, select **OK**.

If your printer connection uses bidirectional communication, the options installed on the printer are automatically identified in the Installed Options list. Only options that are not currently installed on the printer display in the Available Options list.

5 Select **Device Settings**. In this window, you should set the defaults that are not print job dependent, such as the media size you have in your tray(s).

6 Finish customizing the settings, and then select **OK**.



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For additional printer driver information, refer to the printer driver's online help.

You may continue installing other utilities available on the Software Utilities *CD-ROM.*

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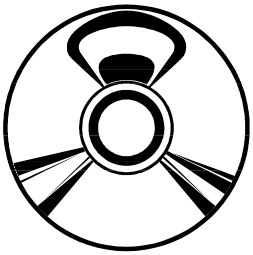
2.3 Installing the Printer Driver on Windows 2000

KONICA MINOLTA PostScript Drivers

KONICA MINOLTA PostScript Drivers are available from the *Software Utilities* CD-ROM and from the Internet (www.konicaminolta.net/printer/). This chapter includes instructions for manually installing the printer driver using the Add Printer Wizard.



Installing from the CD-ROM

The *Software Utilities* CD-ROM has an automatic printer driver installer program. Simply insert the CD-ROM and follow the on-screen instructions for driver installation.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

After driver installation is complete, remove the *Software Utilities* CD-ROM and store it in a safe place.

You also have the option to manually install the printer driver located on the CD-ROM. See “Manually Installing the KONICA MINOLTA PostScript Driver for Windows 2000” on page 35 for instructions.

Efforts to enhance the features and performance of your KONICA MINOLTA printer driver don’t stop when you purchase our product. We make every effort to bring you the very best, and as a result, occasionally update the printer driver software. For the latest printer driver, check your printer’s Support page on our website at www.konicaminolta.net/printer/.

Downloading a Printer Driver from the Internet

Our Internet website (www.konicaminolta.net/printer/) contains the latest driver and support files for your printer. To download a printer driver, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and driver from the Drivers, PPDs, and Utilities listing.

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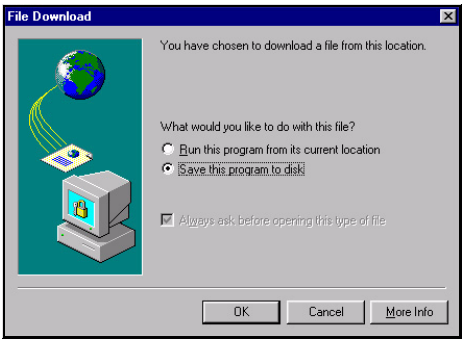
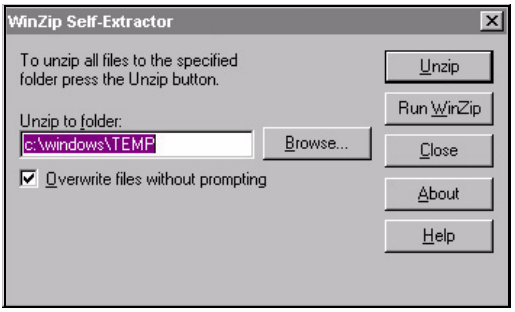
2 Select **Save this program to disk** when prompted. Save the download file to a new directory on your PC.


File Download
You have chosen to download a file from this location.
What would you like to do with this file?
Run this program from its current location
Save this program to disk
Always ask before opening this type of file
OK
Cancel
More Info

3 After the download is complete, use Windows Explorer to open the new directory created in step 2.

4 Double-click on the .exe file that was downloaded.

The .exe is a self-extracting WinZip file that allows you to uncompress the installation files. Select Browse, then locate and choose the directory created in step 2 above. Select OK, and then select Unzip.



5 After the files are unzipped, close the WinZip Self-Extractor, and then continue with the installation steps described in the next section, beginning with step 2 on page 36.

Manually Installing the KONICA MINOLTA PostScript Driver for Windows 2000

The following assumes that you are installing the KONICA MINOLTA PostScript Driver for Windows 2000 for the first time. You may also use the standard installation, described below.

1 If the driver you are installing is on the *Software Utilities* CD-ROM, make sure that the CD-ROM is in your CD-ROM drive.

If the CD-ROM installation application starts, close the application before continuing.

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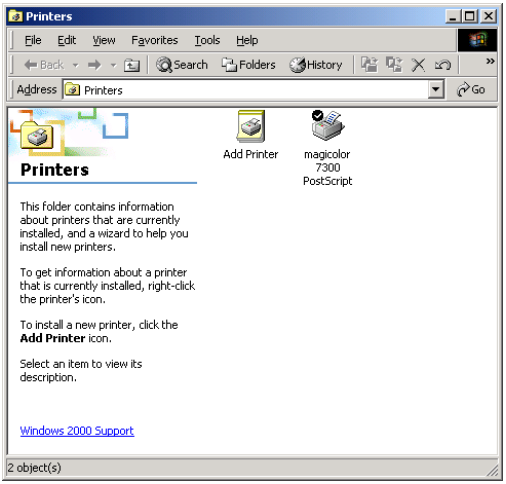
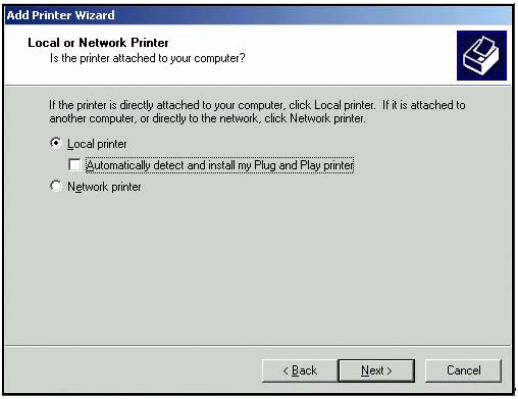
2 From the **Start** menu, choose **Settings**/ **Printers**.

3 Double-click on the **Add Printer** icon (Windows 2000). The **Add Printer Wizard** starts. Follow the on-screen instructions.


Printers
File Edit View Favorites Tools Help
Back Search Folders History
Address Printers
Go
Printers
This folder contains information about printers that are currently installed, and a wizard to help you install new printers.
To get information about a printer that is currently installed, right-click the printer's icon.
To install a new printer, click the Add Printer icon.
Select an item to view its description.
Windows 2000 Support
Add Printer
magicolor 7300 PostScript
2 object(s)

4 Select local printer (you are attaching to a port, not to a printer attached to a server). Then select **Next**.


Add Printer Wizard
Local or Network Printer
Is the printer attached to your computer?
If the printer is directly attached to your computer, click Local printer. If it is attached to another computer, or directly to the network, click Network printer.
Local printer
Automatically detect and install my Plug and Play printer
Network printer
< Back
Next >
Cancel

Section 2
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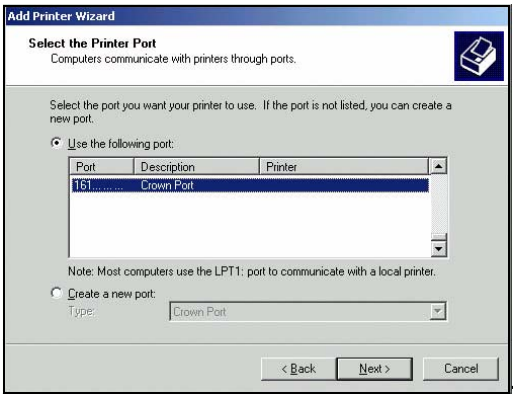
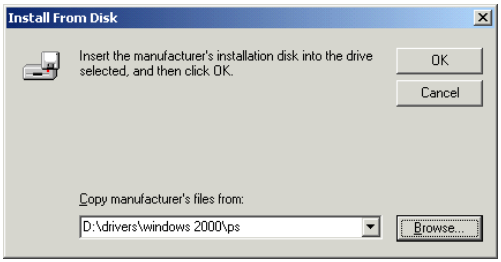
5 Choose the appropriate printer port.

For a local (parallel) connection, select LPTx:. For a USB connection, use USBxxx:.


Add Printer Wizard
Select the Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
Port
Description
Printer
161..... ...
Crown Port
Note: Most computers use the LPT1: port to communicate with a local printer.
Create a new port:
Type:
Crown Port
< Back
Next >
Cancel

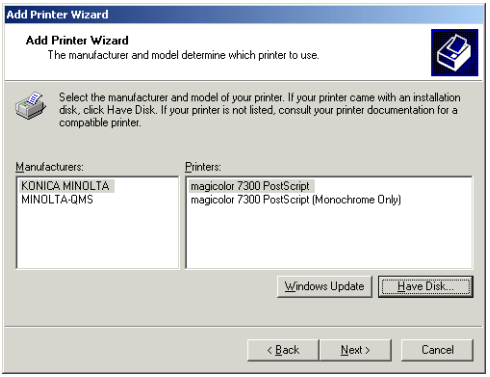
If your port is not listed, the port can be added after the driver installation (see "Adding a Crown Port after Crown Print Monitor+ Installation" on page 105 to create a new port).

6 Select **Have Disk**, then click **Browse**. Browse to the location of the driver (see the following table), select the .inf file, select **Open**, and then select **OK.**



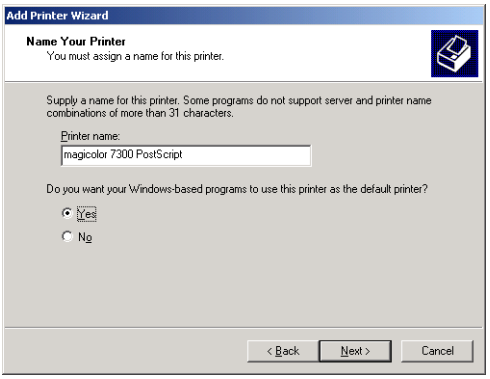
Driver to be installed:	Browse to
Driver on CD-ROM	✇:\drivers\windows 2000\ps\ (where ✇ is the letter of your CD-ROM drive).
Driver downloaded from Internet	New directory containing the downloaded, extracted files. Refer to step 2 of "Downloading a Printer Driver from the Internet" on page 34.

7 Choose your printer. Then select **Next**.


Add Printer Wizard
Add Printer Wizard
The manufacturer and model determine which printer to use.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
Manufacturers:
KONICA MINOLTA
MINOLTA-QMS
Printers:
magicolor 7300 PostScript
magicolor 7300 PostScript (Monochrome Only)
Windows Update
Have Disk...
< Back
Next >
Cancel

In some network settings it may be desirable to limit the number of users that can print in color. Selecting **magicolor 7300 PostScript (Monochrome Only)** *installs the printer without color printing options.*

8 This screen allows you to rename the printer for your convenience and to set the printer as default printer. Select **Next**.


Add Printer Wizard
Name Your Printer
You must assign a name for this printer.
Supply a name for this printer. Some programs do not support server and printer name combinations of more than 31 characters.
Printer name:
magicolor 7300 PostScript
Do you want your Windows-based programs to use this printer as the default printer?
Yes
No
< Back
Next >
Cancel

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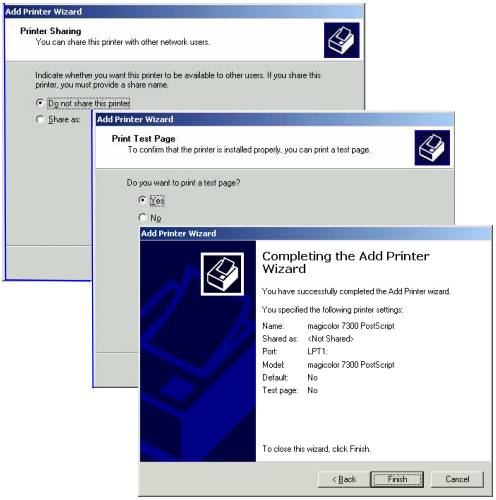
9 Select **Do not share this printer**. Select **Next** twice, and then select **Finish**.

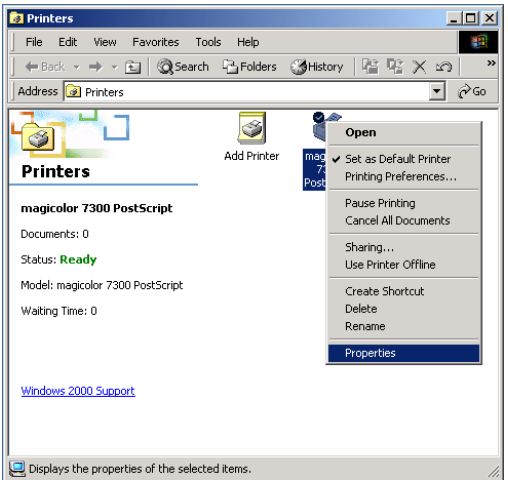
The Add Printer Wizard closes.


Add Printer Wizard
Printer Sharing
You can share this printer with other network users.
Indicate whether you want this printer to be available to other users. If you share this printer, you must provide a share name.
Do not share this printer
Share as:
Add Printer Wizard
Print Test Page
To confirm that the printer is installed properly, you can print a test page.
Do you want to print a test page?
Yes
No
Add Printer Wizard
Completing the Add Printer Wizard
You have successfully completed the Add Printer wizard.
You specified the following printer settings:
Name: magicolor 7300 PostScript
Shared as: <Not Shared>
Port: LPT1:
Model: magicolor 7300 PostScript
Default: No
Test page: No
To close this wizard, click Finish.
< Back
Finish
Cancel

Customizing Driver Settings

1 From the Start menu, choose **Settings/ Printers**, and locate the (new) printer icon.

2 Right-click on the printer icon and choose **Properties**.



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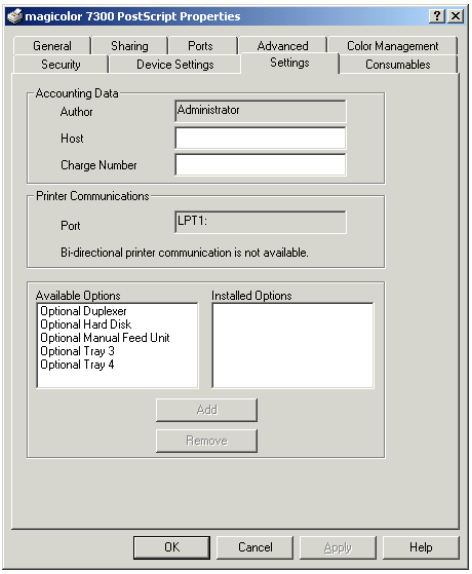
3 Select **Settings**.



If your printer connection uses bidirectional communication, the options installed on the printer are automatically identified in the Installed Options list. Only options that are not currently installed on the printer display in the Available Options list.

4 In this window you may choose certain “options” available on your printer. To add an available option to the installed options list, select the option and then click Add. After making selections, select **OK**.

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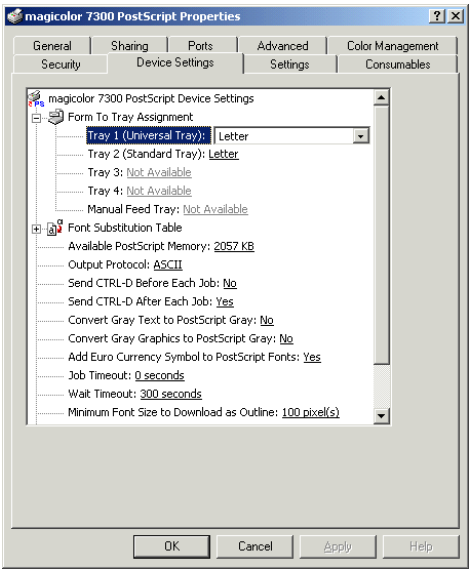
5 Select **Device Settings**. In this window you should set the defaults that are not print job dependent, such as the media size you have in your tray(s).

6 Finish customizing the settings, and then select **OK**.



For additional printer driver information, refer to the printer driver's online help.

You may continue installing other utilities available on the Software Utilities *CD-ROM.*

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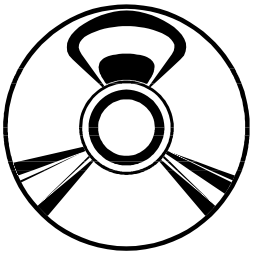
2.4 Installing the Printer Driver on Windows Me/98

KONICA MINOLTA PostScript Drivers

KONICA MINOLTA PostScript Drivers are available from the *Software Utilities* CD-ROM and from the Internet (www.konicaminolta.net/printer/). This chapter includes instructions for manually installing the printer driver using the Add Printer Wizard.



Installing from the CD-ROM

The *Software Utilities* CD-ROM has an automatic printer driver installer program. Simply insert the CD-ROM and follow the on-screen instructions for driver installation.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

After driver installation is complete, remove the *Software Utilities* CD-ROM and store it in a safe place.

You also have the option to manually install the printer driver located on the CD-ROM. See “Manually Installing the KONICA MINOLTA PostScript Driver for Windows Me and 98” on page 45 for instructions.

Efforts to enhance the features and performance of your KONICA MINOLTA printer driver don’t stop when you purchase our product. We make every effort to bring you the very best, and as a result, occasionally update the printer driver software. For the latest printer driver, check your printer’s Support page on our website at www.konicaminolta.net/printer/.

Downloading a Printer Driver from the Internet

Our Internet website (www.konicaminolta.net/printer/) contains the latest driver and support files for your printer. To download a printer driver, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and driver from the Drivers, PPDs and Utilities listing.

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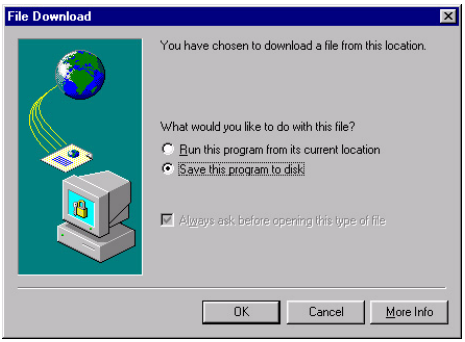
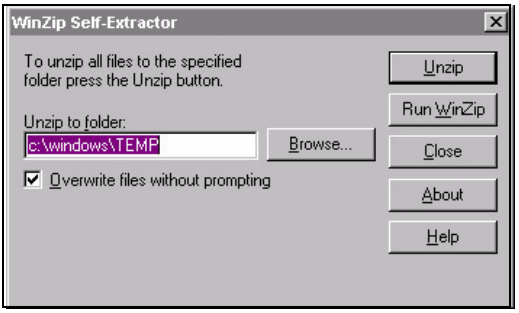
2 Select **Save this program to disk** when prompted. Save the download file to a new directory on your PC.


File Download
You have chosen to download a file from this location.
What would you like to do with this file?
Run this program from its current location
Save this program to disk
Always ask before opening this type of file
OK
Cancel
More Info

3 After the download is complete, use Windows Explorer to open the new directory created in step 2.

4 Double-click on the .exe file that was downloaded.

The .exe is a self-extracting WinZip file that allows you to uncompress the installation files. Select Browse, then locate and choose the directory created in step 2 above. Select OK, and then select Unzip.



5 After the files are unzipped, close the WinZip Self Extractor, and then continue with the installation steps described in the next section, beginning with step 2 on page 46.

Manually Installing the KONICA MINOLTA PostScript Driver for Windows Me and 98

The following assumes that you are installing the KONICA MINOLTA Post-Script Driver for Windows Me and 98 for the first time.

1 If the driver you are installing is on the *Software Utilities* CD-ROM, make sure that the CD-ROM is in your CD-ROM drive.

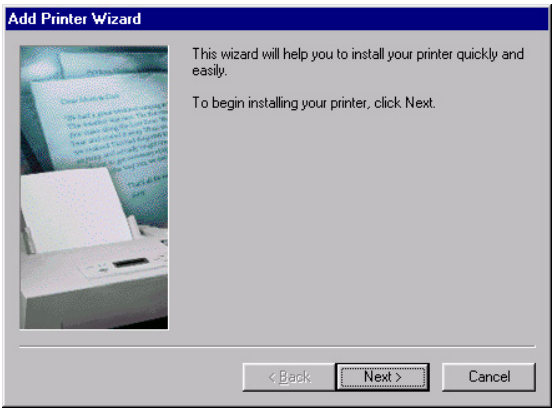
If the CD-ROM installation application starts, close the application before continuing.

2 From the Start menu, choose **Settings/Printers**.

3 Double-click on the **Add Printer** icon.

The Add Printer Wizard starts.

4 Select **Next**.


Add Printer Wizard
This wizard will help you to install your printer quickly and easily.
To begin installing your printer, click Next.
< Back
Next >
Cancel

5 Select **Local Printer**, and then select **Next**.

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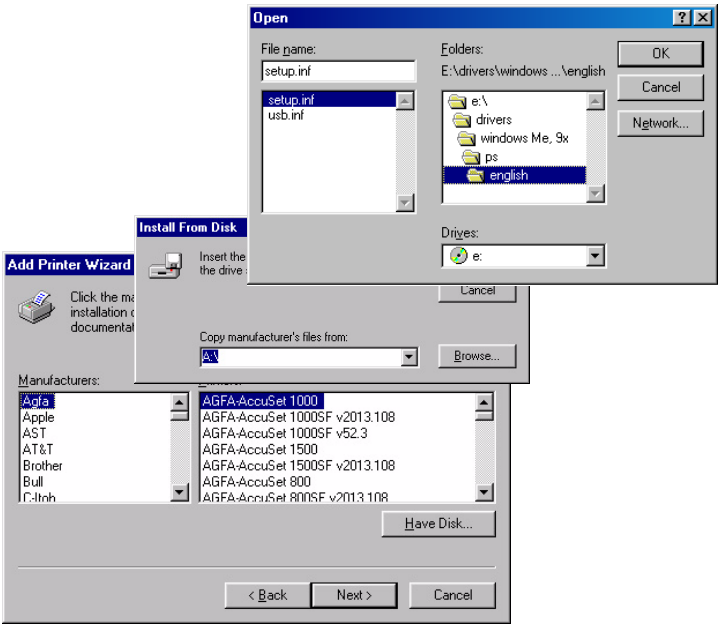
6 Select **Have Disk** and browse to the location of the driver you are installing.



Driver to be installed:	**Browse to**
Driver on *CD-ROM*	✇:\drivers\windows me, 9x\ps\language\ (where ✇ is the letter of your CD-ROM drive).
Driver downloaded from Internet	New directory containing the downloaded, extracted files. Refer to step 2 of “Downloading a Printer Driver from the Internet” on page 44.

7 Select **OK** twice.

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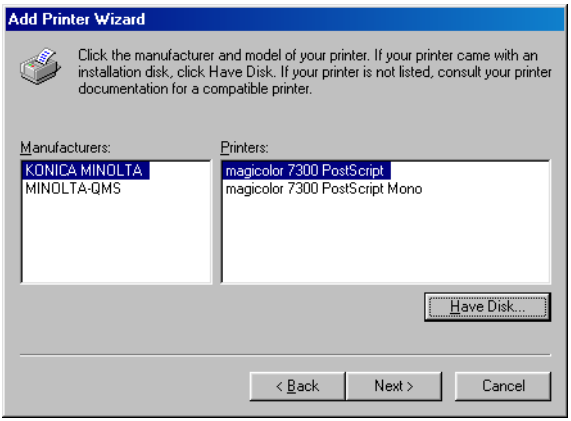
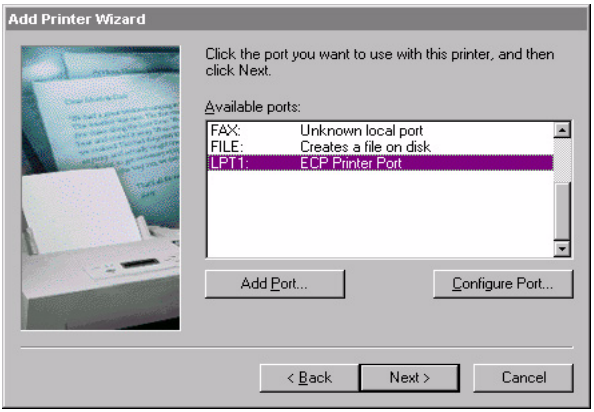
8 Choose your printer from the list, and then select **Next**.

In some network settings it may be desirable to limit the number of users that can print in color. Selecting KONICA MINOLTA `magicolor 7300 Mono` *installs the printer without color printing options.*


Add Printer Wizard
Click the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
Manufacturers:
KONICA MINOLTA
MINOLTA-QMS
Printers:
magicolor 7300 PostScript
magicolor 7300 PostScript Mono
Have Disk...
< Back
Next >
Cancel

9 Choose the appropriate printer port, and then select **Next**.

For a local (parallel) connection, select LPTx:. For a USB connection, use USBxxx:.


Add Printer Wizard
Click the port you want to use with this printer, and then click Next.
Available ports:
FAX: Unknown local port
FILE: Creates a file on disk
LPT1: ECP Printer Port
Add Port...
Configure Port...
< Back
Next >
Cancel

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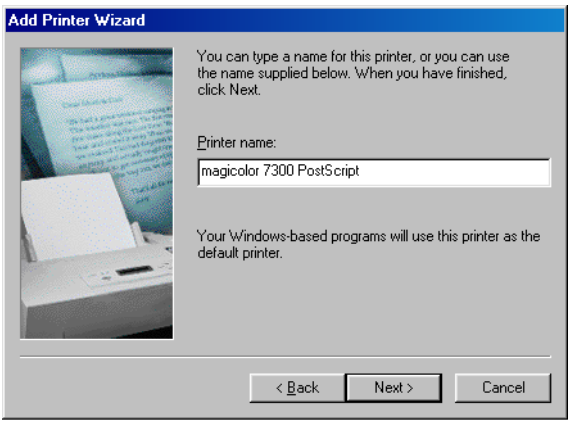
10 This screen allows you to rename the printer for your convenience. Select **Next**, and then **Finish**.

The Add Printer Wizard closes.


Add Printer Wizard
You can type a name for this printer, or you can use the name supplied below. When you have finished, click Next.
Printer name:
magicolor 7300 PostScript
Your Windows-based programs will use this printer as the default printer.
< Back
Next >
Cancel

Customizing Driver Settings

1 From the Start menu, choose **Settings/ Printers** and locate the (new) printer icon.

2 Right-click on the printer icon.

3 Choose **Properties**. In the Properties Window, select **Details**. Verify that the port and the driver name are correct. Then select **Setup**.

4 Choose the Settings tab.

If your printer connection uses bidirectional communication, the options installed on the printer are automatically identified in the Installed Options list. Only options that are not currently installed on the printer display in the Available Options list.

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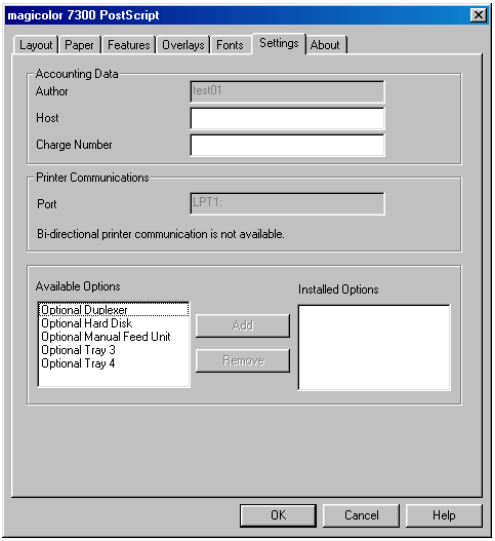
5 In this window you may choose certain “options” available on your printer. To add an available option to the installed options list, select the option and then click **Add**. After making selections, select **OK**.



6 Choose the Paper tab. From this tab, you should set the defaults that are not print job dependent such as Paper Size, Source, and Media Type.

For additional printer driver information, see the printer driver’s online help.

7 For overlays, refer to “Overlay Printing” on page 191.

8 Finish the settings and select **OK**.

You may continue installing other utilities available on the Software Utilities *CD-ROM.*

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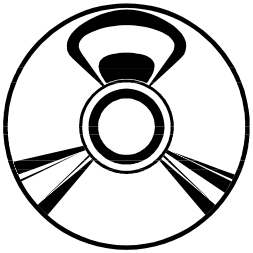
2.5 Installing the Printer Driver on Windows NT4

KONICA MINOLTA PostScript Drivers

KONICA MINOLTA PostScript Drivers are available from the *Software Utilities* CD-ROM and from the Internet (www.konicaminolta.net/printer/). This chapter includes instructions for manually installing the printer driver using the Add Printer Wizard.

To use the KONICA MINOLTA PostScript printer driver, SNMP must be running and you must have Windows NT4 Service Pack 6 or higher installed.

*Windows NT does not support Plug & Play. When you see the pop-up menu to select where to install the driver from, select "**Specify a Location**." Do not select "from CD-ROM" for the driver location.*



Installing from the CD-ROM

The *Software Utilities* CD-ROM has an automatic printer driver installer program. Simply insert the CD-ROM and follow the on-screen instructions for driver installation.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

After driver installation is complete, remove the *Software Utilities* CD-ROM and store it in a safe place.

You also have the option to manually install the printer driver located on the CD-ROM. See "Manually Installing the KONICA MINOLTA PostScript Driver on Windows NT4" on page 54 for instructions.

Efforts to enhance the features and performance of your KONICA MINOLTA printer driver don't stop when you purchase our product. We make every effort to bring you the very best, and as a result, occasionally update the printer driver software. For the latest printer driver, check your printer's Support page on our website at www.konicaminolta.net/printer/.

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Downloading a Printer Driver from the Internet

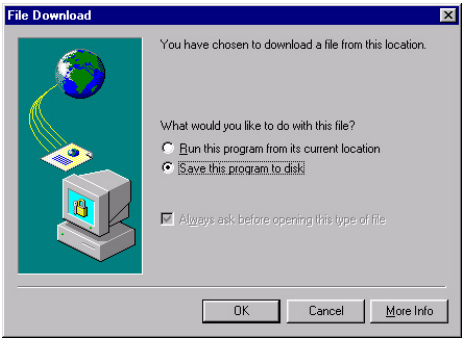
Our Internet website (www.konicaminolta.net/printer/) contains the latest driver and support files for your printer. To download a printer driver, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and driver from the Drivers, PPDs and Utilities listing.

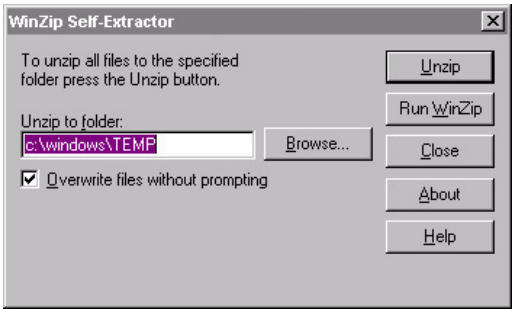
2 Select Save this program to disk when prompted. Save the download file to a new directory on your PC.

3 After the download is complete, use Windows Explorer to open the new directory created in step 2.

4 Double-click on the .exe file that was downloaded.


File Download
You have chosen to download a file from this location.
What would you like to do with this file?
Run this program from its current location
Save this program to disk
Always ask before opening this type of file
OK
Cancel
More Info

The .exe is a self-extracting WinZip file that allows you to uncompress the installation files. Select ***Browse****, then locate and choose the directory created in step 2 above. Select* ***OK****, and then select* ***Unzip****.*



5 After the files are unzipped, close the WinZip Self-Extractor, and then continue with the installation steps described in the next section, beginning with step 2 below.

Manually Installing the KONICA MINOLTA PostScript Driver on Windows NT4

Review the information in the driver's readme.txt file for driver availability notes and special instructions on driver installation and use.

The following assumes that you are installing the KONICA MINOLTA PostScript Driver for Windows NT4 for the first time.

1 If the driver you are installing is on the *Software Utilities* CD-ROM, make sure that the CD-ROM is in your CD-ROM drive.

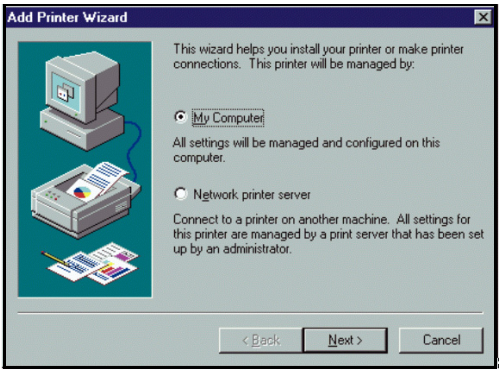
If the CD-ROM installation application starts, close the application before continuing.

2 From the Start menu, choose **Settings/Printers**.

3 Double-click on the **Add Printer** icon.

The Add Printer Wizard starts.

4 Select **My Computer**, and then select **Next**.


Add Printer Wizard
This wizard helps you install your printer or make printer connections. This printer will be managed by:
My Computer
All settings will be managed and configured on this computer.
Network printer server
Connect to a printer on another machine. All settings for this printer are managed by a print server that has been set up by an administrator.
< Back
Next >
Cancel

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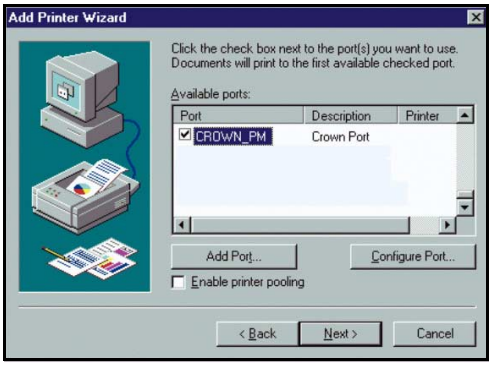
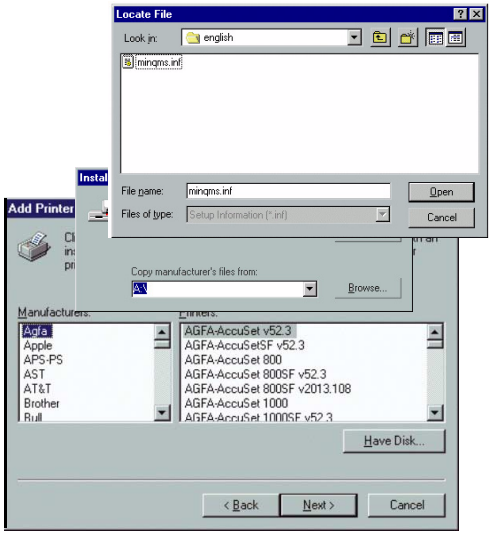
5 Choose the appropriate printer port, and then select **Next**.

For a local (parallel) connection, select LPTx:. For a USB connection, use USBxxx:.

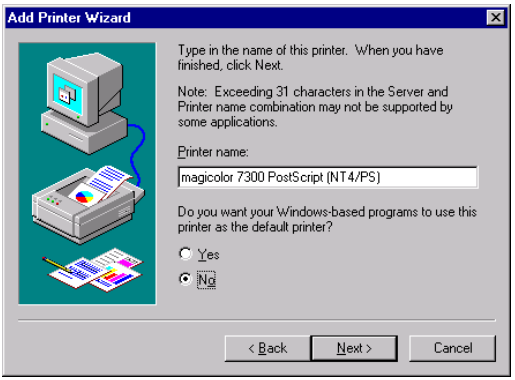


6 Select **Have Disk**, browse to the location of the driver you are installing (see the following table), select the .inf file, select **Open**, and then select **Next**.



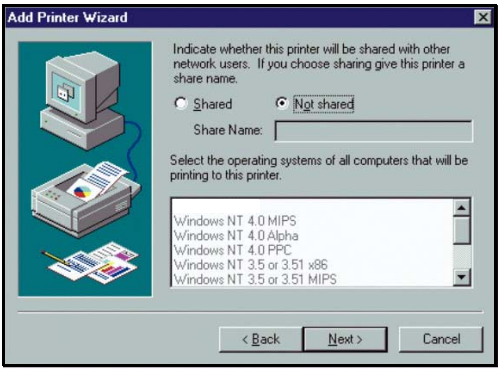
Driver to be installed:	**Browse to**
Driver on CD-ROM	✇:\drivers\windows NT4\ps\language\ (where ✇ is the letter of your CD-ROM drive).
Driver downloaded from Internet	New directory containing the downloaded, extracted files. Refer to step 2 of “Downloading a Printer Driver from the Internet” on page 53.

7 This screen allows you to rename the printer for your convenience and to set the printer as the default printer. Select **Next**.


Add Printer Wizard
Type in the name of this printer. When you have finished, click Next.
Note: Exceeding 31 characters in the Server and Printer name combination may not be supported by some applications.
Printer name:
magicolor 7300 PostScript (NT4/PS)
Do you want your Windows-based programs to use this printer as the default printer?
Yes
No
< Back
Next >
Cancel

8 Select **Shared** or **Not Shared**. (If you select Shared, enter the share name). Select **Next**, and then select **Finish**.

The Add Printer Wizard closes.


Add Printer Wizard
Indicate whether this printer will be shared with other network users. If you choose sharing give this printer a share name.
Shared
Not shared
Share Name:
Select the operating systems of all computers that will be printing to this printer.
Windows NT 4.0 MIPS
Windows NT 4.0 Alpha
Windows NT 4.0 PPC
Windows NT 3.5 or 3.51 x86
Windows NT 3.5 or 3.51 MIPS
< Back
Next >
Cancel

Customizing Driver Settings

To use the KONICA MINOLTA PostScript printer driver, SNMP must be running and you must have Windows NT4 Service Pack 6 or higher installed.

1 From the Start menu, choose Settings/Printers and locate the (new) printer icon.

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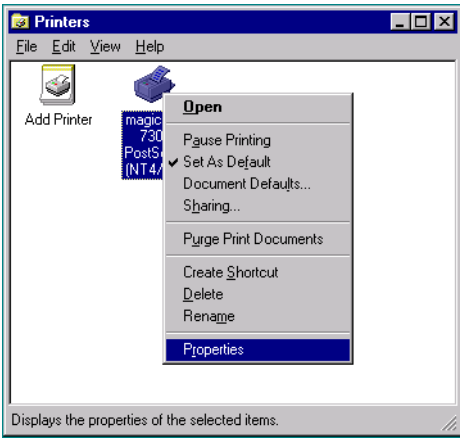
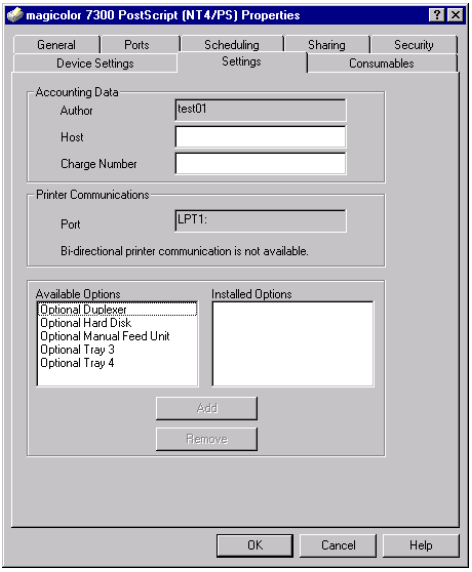
2 Right-click on the icon and choose **Properties**.

3 Choose the Settings tab.



If your printer connection uses bidirectional communication, the options installed on the printer are automatically identified in the Installed Options list. Only options that are not currently installed on the printer display in the Available Options list.

4 In this tab you may choose certain “options” available on your printer. To add an available option to the installed options list, select the option and then click Add. After making selections, select **OK**.



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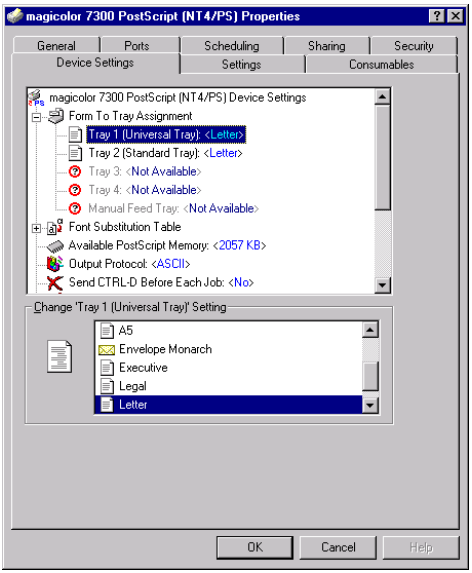
5 Select the **Device Settings** tab.

In this tab you should set the defaults that are not print job dependent, such as the media size you have in your tray(s).



6 Finish customizing the settings and select **OK**.

For additional printer driver information, you may also refer to the printer driver's online help.

You may continue installing other utilities available on the Software Utilities *CD-ROM.*

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PPDs and Utilities for Macintosh 2.6

Introduction

This chapter describes how to install the PostScript Printer Description (PPD) files and utilities needed to take advantage of all of your printer's features. The PPD works with the Macintosh Operating System's PostScript printer driver (LaserWriter) to provide support for the features on the magicolor 7300, such as print resolution and media sizes, and optional features such as duplexing.

Installing PPD Files

1 Insert the KONICA MINOLTA *Software Utilities* CD-ROM.

PPDs are also available on our website at www.konicaminolta.net/printer/.

2 Double-click the KONICA MINOLTA icon when it appears on the desktop.

3 If this screen appears, click the **Install Additional Software** button.

If this screen does not appear when you double-click the KONICA MINOLTA icon, then double-click the Install icon and this screen appears.

4 After reading the Program License Agreement, select **Agree** to continue the installation.

5 Select the Read Me... button to view information about PPDs and utilities on the *Software Utilities* CD-ROM.

6 Close the Read Me file after reading the information.

7 From the Install Location drop-down list box, choose the disk where you want to install the software.

To change the install location, use the drop-down list box to display and choose the appropriate disk.

8 Choose **Easy Install** or **Custom Install.**

Custom Install allows you to choose which printer files are installed during installation.

9 Select **Install**.

10 When the installation is complete, select **Quit**.

The operation was successful. If you are finished, click Quit to leave. If you wish to perform additional operations, click Continue.
Continue
Quit

11 Remove the *Software Utilities* CD-ROM from your CD-ROM drive and store it in a safe place.

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12 Customize the printer description (PPD) as described in the next section.

Customizing the Printer Description

1 Open the Chooser (under the Apple icon in the desktop menu bar).

2 Select the LaserWriter printer driver.

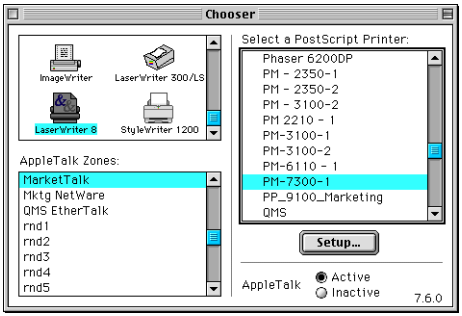
The chooser searches for available printers.

3 From the Select a PostScript Printer list, select your printer and then select **Create**.

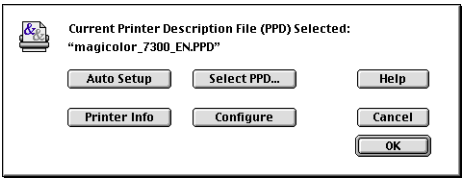
*If your network has more than one zone, select the zone that your printer is configured for, select your printer from the Select a PostScript Printer list, and then select **Create**.*

Message boxes indicating the set up progress appear and close. When you are returned to the Chooser window, the Create button is replaced by the Setup button.

4 Select **Setup**.



5 In the setup window, click on **Select PPD**.



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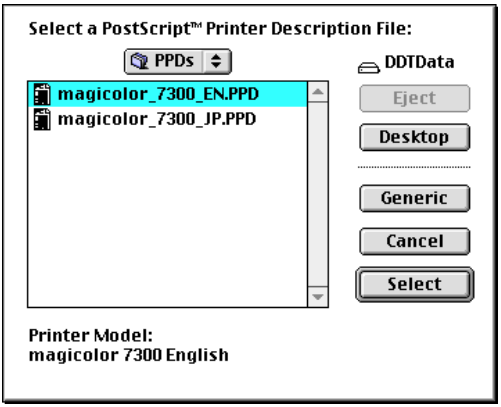
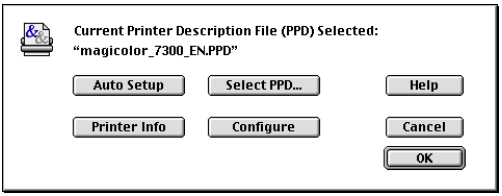
6 From the folder System Folder/ Extensions/Printer Descriptions, select the PPD file installed for your printer, and then click on **Select**.

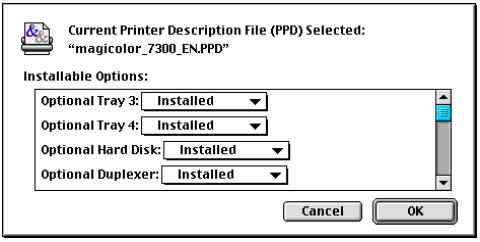
Your Macintosh makes a "connection" between the selected PPD file and your printer.



7 In the setup window, select **Configure**.



8 Configure the settings by choosing from the options available in the drop-down list boxes. Use the scroll buttons to view the full list of optional settings for your printer.



9 When you are finished customizing the PPD, select **OK**, and then close the Chooser.

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KONICA MINOLTA PPDs for Macintosh

This section describes the additional printer configuration items that are available from your application's print dialog.

Overview

1 While using the application that you want to print from, choose **Page Setup** from the file menu. Choose **OK**.

Make sure the proper media size for your job is selected in the drop-down list.

2 Choose **Print** from the file menu.

3 Choose the options and settings that you want for the print job, and then choose **Print**.

The job is printed.

The following sections describe the configuration items available from the print dialog.

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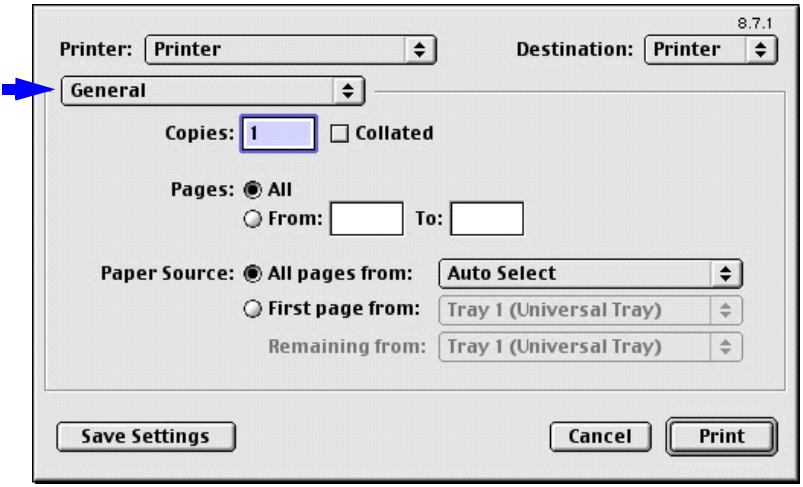
Printer Features and Functions—OS 9

General Dialog



Item	Description
Copies	Allows you to specify how many copies of the print job you want printed.
Collated	If this item is selected, your print job is collated (one complete copy of the document is printed before the next copy is printed). Left unselected, the printing is uncollated.
Pages	Select All to print all pages in the open document. To print a specific range of pages, select From, and then enter the beginning page number in the From text box and the ending page number in the To text box.
Paper Source	Allows you to select the tray that the printer uses for the print job and to choose a different tray for the first page of the document, if you have more than one tray installed.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.

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Item	Description
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Background Printing

Item	Description
Print In	Allows you to choose between printing in foreground and printing in background. Printing in background creates a spool file that is temporarily saved on your computer until the print job is ready to be processed. This allows you to continue working in your applications while the print job is processing. If you don't have enough free file space on your computer to process a spool file, select Foreground printing.
Print Time	Allows you to assign a priority status to the print job and specify a particular time that the print job should be printed.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

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Color Matching

Item	Description
Print Color	Allows you to choose from the color configurations available on your computer.
Intent	Allows you to specify the color matching configuration or allow for automatic configuration. This item is disabled (grayed out) unless ColorSync Color Matching is the selected Print Color setting.
Printer Profile	Allows you to select from the printer profiles that are available.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Cover Page

Item	Description
Print Cover Page	Lets you choose whether to print a cover page, and specify the placement of the cover page in relation to the remaining pages of the print job.
Cover Page Paper Source	Allows you to select the paper tray containing the cover page media. The Cover Page contains information about the print job such as: user name, application, document name, date, time, printer, and number of pages. This option is disabled (grayed out) if Print Cover Page is set to None.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.

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Item	Description
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Layout

Item	Description
Pages Per Sheet	Allows you to set the number of logical pages per physical sheet.
Layout Direction	Lets you identify either left-right or right-left logical page direction on the physical sheet.
Border	Allows you to select a border to surround each logical page.
Print on Both Sides	Allows you to configure the print job for duplex printing. This setting is disabled (grayed out) unless an optional duplex unit is installed and identified in the PPD configuration. See “Customizing the Printer Description” on page 61 for additional information.
Binding	Determines the orientation of the logical pages on the physical sheet so the printed media is oriented for binding on the short edge or long edge of the media.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

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Paper Handling

Item	Description
If the Cassette is Out of Paper	Selects tray switching behavior, such as Use printer's default, Switch to another cassette with same paper size, or Display alert.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Save as File

Item	Description
Format	Select the file format of the output file.
PostScript Level	Allows you to select from available PostScript levels.
Data Format	Sends the print job data to the file in either ASCII or Binary format.
Font Inclusion	Allows you to choose the fonts that are included with the print job as it is saved to a file.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

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Detailed Color Settings 1

Item	Description
RGB Source Images	Allows you to select from standard or custom RGB source profiles for ICC color matching on images.
RGB Source Graphics	Allows you to select from standard or custom RGB source profiles for ICC color matching on graphics and color text.
Gray Treatment Images **Gray Treatment Graphics**	Allows you to select the way that the printer prints neutrals within your print jobs. **Black and Gray—**All RGB grays are converted to the printer's CMYK black only gray scale. Setting the RGB Gray Treatment to this item guarantees that monochrome documents print at full speed and that only black toner is used to print gray shades. *Some gradient fills may not reproduce well using this item as the setting.* **Composite Black—**RGB black and grays are converted to CMYK according to the output profile. Setting the RGB Gray Treatment to this item results in rich black colors using varying amounts of cyan, magenta, yellow, and black toner. *Because all colors are used in this setting, toner scattering and registration errors are more likely to be seen in heavy text and lines.*
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

What Is the Difference Between Color *Images* and Color *Graphics*?

"Color images" refers to items such as photographs. "Color graphics" refers to items such as charts, logos, and clip art.

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Detailed Color Settings 2

Item	Description
Image Halftone	Allows you to customize the smoothness of the printed image according to the number of grayscale levels used on your images. Your choices depend on the halftones available on your printer.
Graphics Halftone	Allows you to customize the smoothness of the printed image according to the number of grayscale levels used on your graphics. Your choices depend on the halftones available on your printer.
Color Matching	Allows you to specify the color matching configuration or allows for automatic configuration. This item is disabled (grayed out) unless ColorSync Color Matching or PostScript Color Matching is the selected Print Color setting.
Colors As Grayscale	Select (check) this check box if you're printing image colors as gray shades.
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

Detailed Color Settings 3

Item	Description
Simulation Profile	Allows you to choose a CMYK source profile for ICC color matching.
Destination Profiles	The Destination Profiles relate to color matching options supplied by the PPD.
Custom RGB Source	Allows you to select RGB source profiles for the printer.

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Item	Description
Save Settings	Saves configuration changes made in the print dialog. These changes remain as the default settings until the configuration items are changed again.
Cancel	Closes the print dialog without printing and without saving configuration changes.
Print	Sends the print job, using the configuration settings you selected in the printer dialog, closes the print dialog, and restores the last saved configuration settings.

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Linux Setup 2.7

Printing from Linux

This document describes some of the common methods used to print from a Linux Operating System (OS) to a KONICA MINOLTA printer. These methods range from providing minimum to maximum printing flexibility and access to printer features from the Linux environment. A general description, installation instructions, and application notes are included for each method. Choose the method that best matches your printing environment and needs. We recommend using PDQ with the XPDQ front-end for novice Linux users as well as for any users who want to break from traditional Linux printing techniques.

The instructions contained in this document were verified on RedHat 6.2 OS. Instructions may vary on different Operating Systems.

Common Printing Methods

PDQ

KONICA MINOLTA printers that support printing from Linux are shipped with the required PPDs (for use with CUPS) and PDQ drivers.

PDQ is a non-daemon-centric print system, which has a built-in and sensible driver configuration syntax. PDQ works similarly to and takes the place of LPD. To print, the pdq command is used instead of lpr. PDQ also includes a file called printrc that contains all the needed information for each printer.

A printer is defined in PDQ as the combination of a "driver" and an "interface."

A PDQ interface describes how to send data to a printer. The most common interfaces, which are defined in the PDQ distribution example printrc file, are

- **Local-port—**The common parallel or serial port. This interface has a device name such as /dev/lp0.
- **Bsd-lpd—**A bsd-lpd interface transmits over the network to an LPD daemon or LPD-compatible network printer. It supports job submissions, cancellations, and queries to LPD interfaces. The bsd-lpd interface also has hostname and queuename arguments.
- **AppleTalk—**The AppleTalk interface allows you to print over an AppleTalk network. Use this method if you have a printer connected to your Macintosh computer.

  This interface requires that you have the Netatalk package installed.

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A PDQ driver contains all the printer options such as paper trays and media types, as well as a system for translating print data into a format that your printer can understand.

If a driver is not available for your printer, an existing driver may be modified. See the PDQ documentation for creating/modifying drivers.

XPDQ

XPDQ is a Graphical User Interface (GUI) for PDQ that displays a list of available printers and a summary of the print queue. From this dialog all printer options defined in the PDQ driver may be set.

CUPS

KONICA MINOLTA printers that support printing from Linux are shipped with the required PPDs (for use with CUPS) and PDQ drivers.

CUPS allows Linux users to manage print jobs and queues with the Internet Printing Protocol (IPP). The Line Printer Daemon (LPD), Server Message Block (SMB), and AppSocket (a.k.a. JetDirect) protocols are supported with reduced functionality. CUPS adds network printer browsing and PostScript Printer Description (PPD)-based options that support printing under Linux.

CUPS, with the use of PPD files, allows you to take advantage of the built-in printer features such as duplex and multiple media trays, and to set the default media size and type, all from the CUPS web-based GUI. However, a problem may arise when printing from applications that allow you to choose printer options because the application options override the CUPS options. For example, if you choose a different paper size in the Netscape print dialog than the one chosen in the CUPS options, then the Netscape choice would override the CUPS choice and be used. To avoid this problem, confirm that the application settings match the CUPS settings.

There are known margin alignment problems when printing duplex from Linux using CUPS with Windows NT PPDs.

XPP

XPP is a GUI for the CUPS printing system. The X Printing Panel (XPP) is a free tool (under the GNU General Public License - GPL) that allows you to select from a list of available printers and to set printer options. One simply uses the program (xpp) instead of the usual utilities (lpr or lp) at the command line or from applications.

Advantages and Features

- Manages printers more easily than the CUPS web-based system.
- Allows you to see and choose from printers available on the network.
- Can be started at the command line or from applications. The name of the file to print can be chosen by a built-in file browser or be given as a command line argument. Standard input can also be printed.
- No need to remember and type cryptic command line arguments to access printer features. Feature options are easily chosen from a dialog window.
- Allows you to use advanced features of most PostScript printers such as duplex units and additional media trays, without using proprietary software.
- Preprocessing options for your documents such as choosing the pages to print, setting brightness and gamma correction, and appearance of text or image printouts.
- Compatible with many of the command line tools of CUPS. It accepts the command line options of lpr and most command line options of lp.

Installation Steps

The following steps are for quick reference only. For more detailed instructions, see the documentation provided with each application.

Installing PDQ

1. Download the source distribution from http://pdq.sourceforge.net/.
2. Gzip the file.
3. Untar the file.
4. As root, go to the pdq directory formed from untarring the file.
5. Type ./configure, and then press **Enter**.
6. Type make, and then press **Enter**.
7. Type make install, and then press **Enter**.
8. Type cp/etc/pdq/printrc.example /etc/pdq/printrc, and then press **Enter**.

Adding A Printer

See the steps described in "Adding A Printer" in the XPDQ section.

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Installing XPDQ

XPDQ is automatically installed with PDQ.

Adding A Printer

1. Copy the printer driver to the directory /etc/pdq/drivers.
2. From the command line, type xpdq.
3. From the menu, choose printer, and then choose **Add Printer**.

   The wizard starts.
4. Enter a printer name.

   This can be any name you want.
5. Select the printer driver for your printer from the list.
6. Enter the interface that is being used. (i.e.: /dev/lp0).

Installing CUPS (from an RPM)

1. The current lpd print system must first be uninstalled. Instructions for uninstalling lpd are found below.
2. Download CUPS 1.1.1 or newer from http://www.cups.org.
3. Type rpm -i cups-x.x.x-linux-x.x-intel.rpm (use the name of the RPM you have).

Uninstalling lpd

As root, from the command line, type the following:

```
rpm -e printtool-3.44-1
rpm -e rhs-printfilters-1.63-1
rpm -e lpr
```

The version numbers listed may be different than yours.

Adding A Printer

CUPS provides two methods for adding printers: a command-line program called lpadmin and a Web interface. The lpadmin command allows you to perform most printer administration tasks from the command-line and is located in /usr/sbin. The Web interface is located at: http://localhost:631/admin and steps you through printer configuration.

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Adding a Printer from the Command-Line

1 Copy the ppd file to /usr/share/cups/model.

2 Execute the command
`/usr/sbin/lpadmin -p printername -E -v device -m filename.ppd`
where printername is what you want to name the printer and device is the printer is location (for example, parallel:/dev/lp0, or socket://11.22.33.44), and filename.ppd is the name of the ppd file copied in step 1

3 To make this printer the default printer, type /usr/sbin/lpadmin -d printer (where printer is the name of the printer from step 2).

Adding a Printer from the Web

To use the wizard from the local host you must first edit the cups.conf file.

1 vi the file /etc/cups/cups.conf and comment out the following lines in the /admin section:

- Order deny allow
- Deny from all
- Allow from 127.0.0.1

A # placed at the beginning of the line comments out the line.

2 Using your web browser, go to http://localhost:631/admin (where localhost is the name of the computer with CUPS installed).

3 Enter root and root password in the dialog box.

4 Select **Add Printer**.

5 Follow the on-screen instructions and complete the setup.

Installing XPP

The easiest way to install xpp is by compiling the source distribution yourself.

1 Cups 1.1.1 or newer must be installed and working. See “Installing CUPS (from an RPM)” on page 77.

2 Download source code for XPP 1.0 and FLTK 1.0.10 from http://cups.sourceforge.net/xpp/.

The following steps must be done as root.

3 Go to the FLTK 1.0.10 directory.

4 Type ./configure, and then press **Enter**.

5 Type make, and then press **Enter**.

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6 Type make install, and then press **Enter**.

7 Go to XPP 1.0 directory.

8 Type ./configure, and then press **Enter**.

9 Type make, and then press **Enter**.

10 Type make install, and then press **Enter**.

This automatically copies the xpp executable into the /usr/local/bin directory.

Adding a Printer

A printer cannot be added through XPP. XPP lists printers installed from CUPS.

Printing from Applications

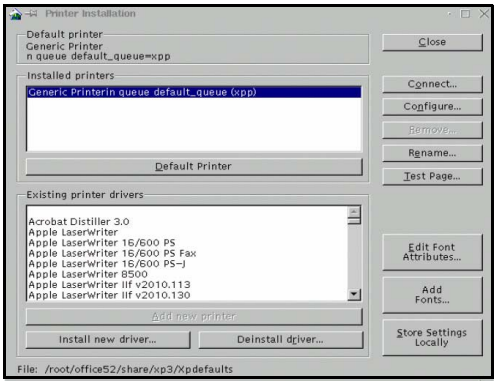
The following steps are for quick reference only. For more detailed instructions, see the documentation provided with each application.

StarOffice

StarOffice uses PPD files in combination with the installed printing system. The following is a list of steps showing how to add and configure printers using PDQ and CUPS.

Adding a Printer

1 Start StarOffice and select **Printer Setup**.



2 Select **Install New Driver**.

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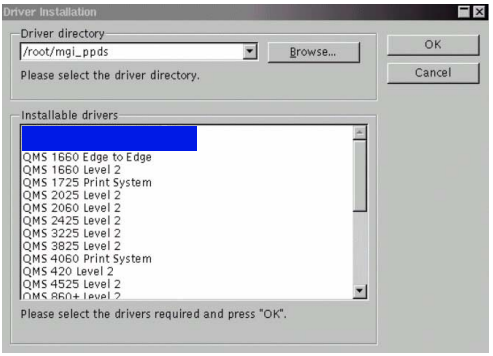
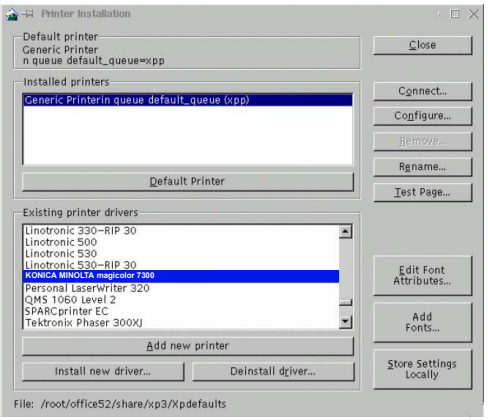
3 Browse or enter the directory that contains the PPD files for your printer.

4 Select the printer to install, and then select **OK**.



5 Select desired printer from the list, and then select **Add New Printer.**

6 To make your selection the default printer, select **Default Printer**.



Using XPDQ

1 With your printer already added, select the printer from the list and select **Connect**.

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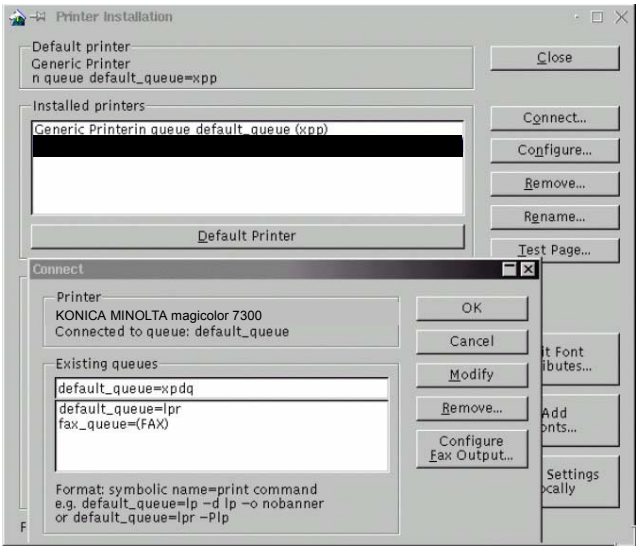
2 In the text box, replace lpr with xpdq, and then select **OK**.



Using XPP

1 With your printer already added, select the desired printer from the list and select **Connect**.

2 In the text box, replace lpr with xpp, and then select **OK**.

Netscape

When Print is selected, Netscape opens a print dialog box. From this dialog box different print commands may be entered. The following is a listing of the commands for the different options.

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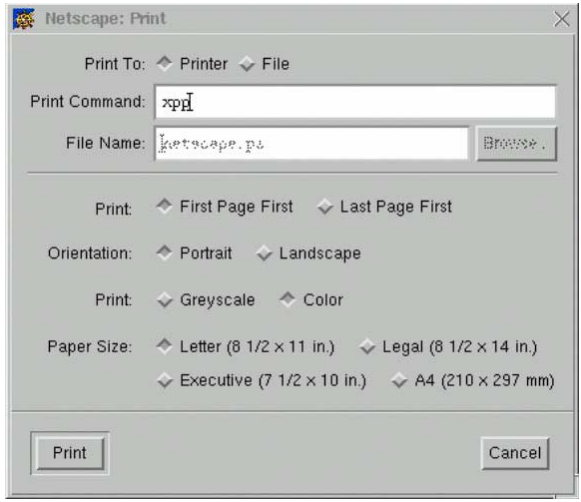
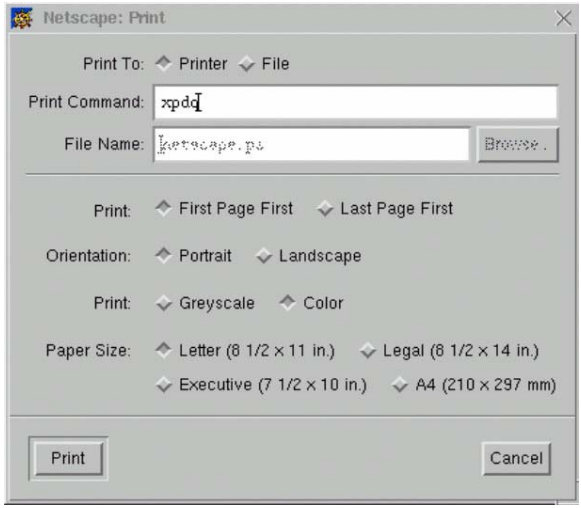
XPP: Enter xpp in the box to use the xpp/cups GUI option.


Netscape: Print
Print To: Printer File
Print Command: xpp
File Name: netscape.ps
Browse...
Print: First Page First Last Page First
Orientation: Portrait Landscape
Print: Greyscale Color
Paper Size: Letter (8 1/2 x 11 in.) Legal (8 1/2 x 14 in.)
Executive (7 1/2 x 10 in.) A4 (210 x 297 mm)
Print
Cancel

XPDQ: Enter xpdq in the box to use the pdq/xpdq GUI option.


Netscape: Print
Print To: Printer File
Print Command: xpdq
File Name: netscape.ps
Browse...
Print: First Page First Last Page First
Orientation: Portrait Landscape
Print: Greyscale Color
Paper Size: Letter (8 1/2 x 11 in.) Legal (8 1/2 x 14 in.)
Executive (7 1/2 x 10 in.) A4 (210 x 297 mm)
Print
Cancel

Netscape remembers the last option entered so you don't have to reenter the command each time you print.

Corel WordPerfect

WordPerfect offers two ways of setting up a printer: personal or system. A personal printer only displays for the person who installed it and can only be

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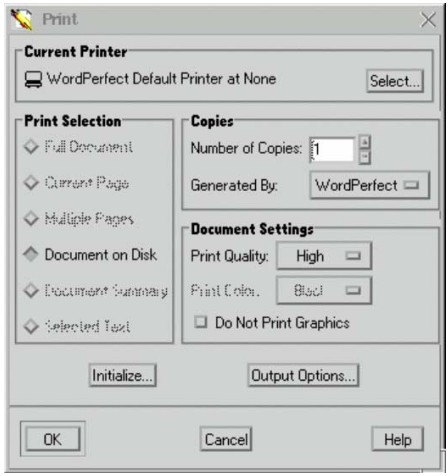
modified by that user. A system printer can be accessed by all users but may be modified only by “root”.

The steps for setting up a personal or system printer are the same with the exception that for a system printer you must login as “root” and start WordPerfect with the -adm option.

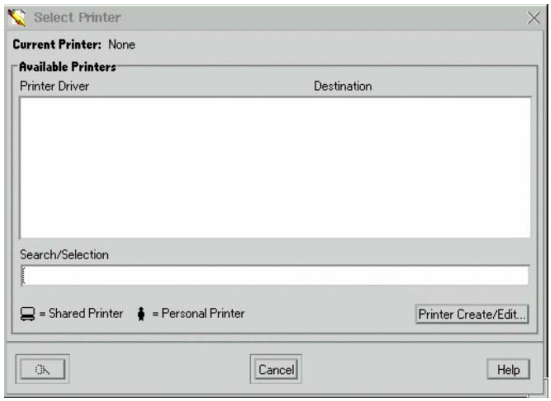
Corel WordPerfect 7 or 8 GUI

1 Select **Print**.

2 Select **Select**.



3 Select **Printer Create/Edit**.



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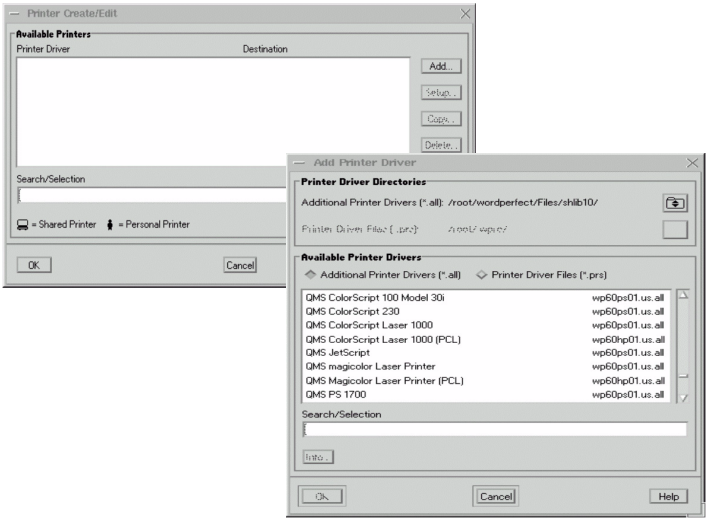
4 Select **Add**.



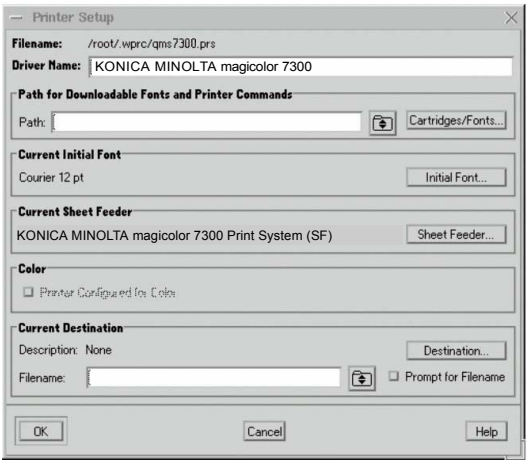
5 Scroll through the list and choose the desired printer. A PostScript printer driver must be chosen to work with CUPS or the drivers provided for PDQ.

If your printer is not listed go to ftp://ftp.corel.com/pub/printdrivers for a list of printer drivers.

6 Select **OK** twice.

7 With the desired printer highlighted, select **Setup**.

8 Select **Destination**.



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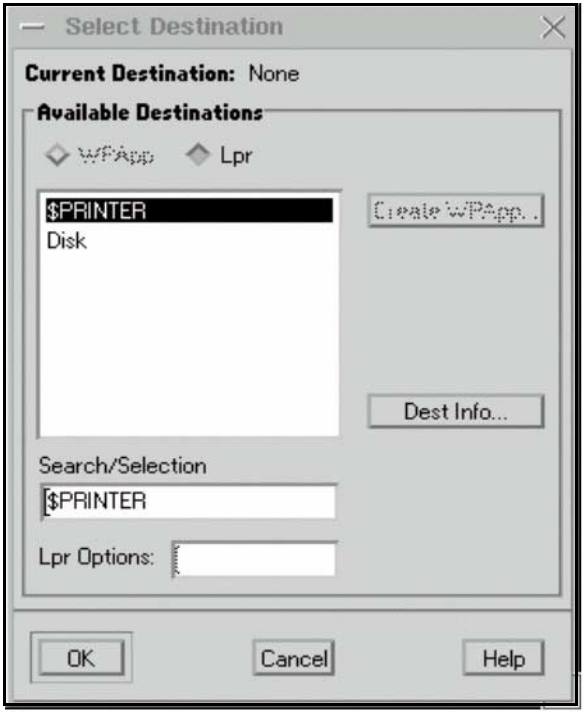
9 Add any spooler options.

10 Select **OK**.



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2.8 Connecting to NetWare 5.x/6.x

NetWare 5.x/6.x Setup

This chapter describes the steps necessary to configure NetWare 5.x/6.x and your printer to print jobs routed through a print server.

Setup Overview

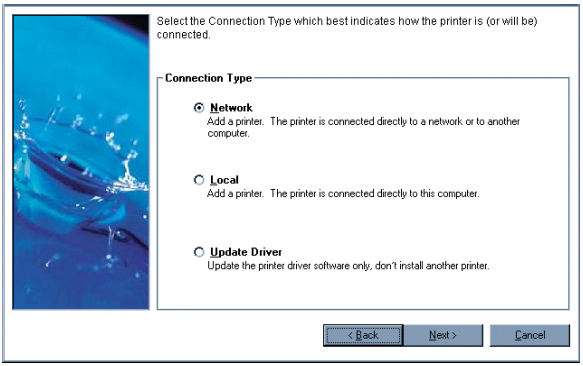
Using NWAdmin (NetWare 5.x/6.x)

1 Insert the *Software Utilities* CD-ROM in your PC's CD-ROM drive.

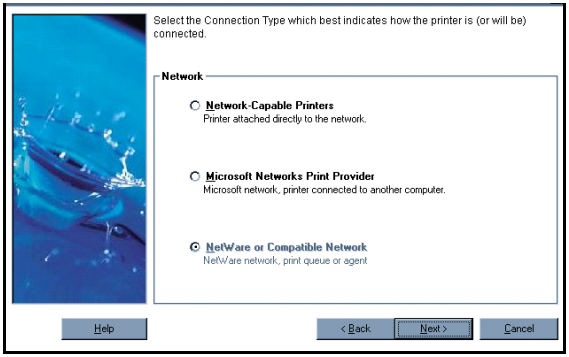
If the CD-ROM does not automatically open, double-click the KONICA MINOLTA CD-ROM icon on your Macintosh desktop.

2 Choose the **Next** button and then choose **Printer Setup**.

3 Choose the Network connection type.


Select the Connection Type which best indicates how the printer is (or will be) connected.
Connection Type
Network
Add a printer. The printer is connected directly to a network or to another computer.
Local
Add a printer. The printer is connected directly to this computer.
Update Driver
Update the printer driver software only, don't install another printer.
< Back
Next >
Cancel

4 Choose **NetWare or Compatible Network**. Press **Next** and follow the instructions on the screen.


Select the Connection Type which best indicates how the printer is (or will be) connected.
Network
Network-Capable Printers
Printer attached directly to the network.
Microsoft Networks Print Provider
Microsoft network, printer connected to another computer.
NetWare or Compatible Network
NetWare network, print queue or agent
Help
< Back
Next >
Cancel

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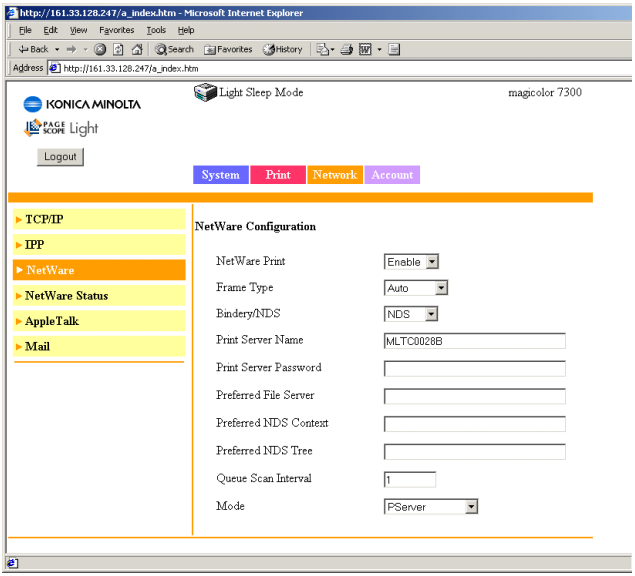
Printer Interface Setup

The following instructions describe how to configure your printer's interface for NDS PServer mode through the printer control panel and through PageScope Net Care.

Configuring the Print Server Context Using PageScope Light



In the Configuration page in the web-based utility, enter values for the following parameters.

Item	Description
NetWare Configuration	
NetWare Print	Enables or disables the NetWare Print option. Choices: Enable Disable Default: **Enable**

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Item	Description
Frame Type	Identifies the IdentifiesIdentifies frame type. Choices: Auto Ethernet 2 802.2 802.3 SNAP Default: **Auto**
Bindery/NDS	Identifies the bindery options. Choices: Bindery NDS Both Default: **NDS**
Print Server Name	Identifies the Print Server Name for the printer. Range: Up to 63 characters Default: *Blank*
Print Server Password	Identifies the Print Server Name for the printer. Range: Up to 63 characters Default: *Blank*
Preferred File Server	Identifiess the Preferred File Server for the printer. Range: Up to 63 characters Default: *Blank*
Preferred NDS Context	Identifies the Preferred NDS Context for the printer. Range: Up to 191 characters Default: *Blank*
Preferred NDS Tree	Identifies the Preferred NDS Tree for the printer. Range: Up to 63 characters Default: *Blank*
Queue Scan Interval	Identifies the number of the queue scan interval. Range: 1–65535 Default: **1**

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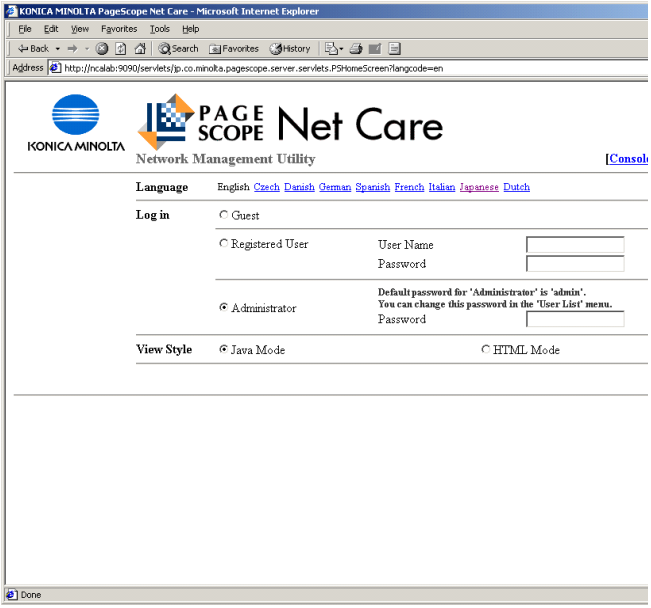
Item	Description
Mode	Identifies the NetWare Configuration mode. Choices: PServer NPrinter/RPrinter Default: **PServer**

Configuring the Print Server Context Using PageScope Net Care



1 From the Device Management Screen, double-click on **All Devices View** and then double-click on your printer in the printer list.

2 Choose the **NetWare** tab.

3 Select **Enable NetWare** and set the Frame Type as Auto for Autodiscovery or Ethernet to set your frame type.

4 Enter the Print Mode.

5 Select **PServer Mode** or **NPrinter Mode**.

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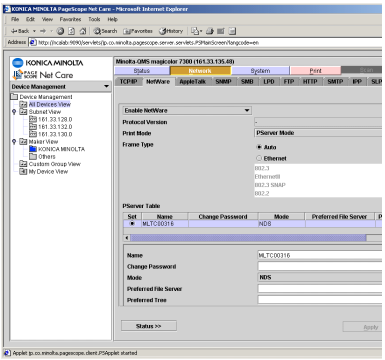
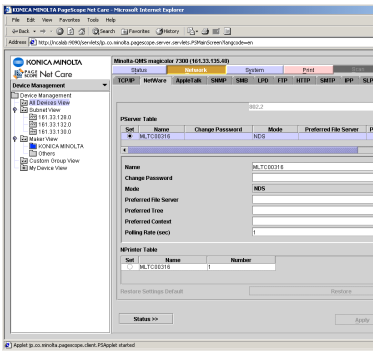
PServer Mode

1 Select the **Set** button.



2 Enter the required data for the PServer.



Print Server Name	If the print server is associated to the NDS tree, also enter the Preferred NDS Tree Name. If the print server is associated to a file server, also enter the Preferred NDS Server Name.
Print Server Password	If you want to use a password, enter it here, but make sure it matches the NWAdmin File Server password
Print Server Mode	Allows you to select NDS, Bindery, or both
Preferred File Server	Allows you to identify the name of the configuration file server
Preferred NDS Tree	Allows you to enter the NDS Tree Name associated with the print server

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Preferred NDS Context	Allows you to set the Context. The Print Server Context must match the one assigned in NetWare setup.
Print Server Polling Rate	Allows you to set the rate at which the print server looks for print jobs

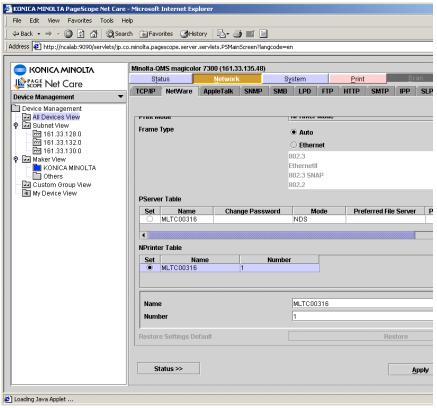
3 Click **Apply**.

4 Turn the printer off and then on again.

NPrinter Mode

1 Select the **Set** button.

2 Enter the required data for NPrinter.



Print Server Name	If the print server is associated to the NDS tree, also enter the Preferred NDS Tree Name. If the print server is associated to a file server, also enter the Preferred NDS Server Name.
Printer Number	Allows you to check or change the printer number. Make sure you use the same number here that you set in NWAdmin.

3 Click **Apply**.

4 Turn the printer off and then on again.

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Printer Management Tools

In this Section...

- Chapter 3.1 — “Using Printer Utilities”
  An introduction to the printer management tools available for your printer.
- Chapter 3.2 — “KONICA MINOLTA Crown Print Monitor +”
  Installation instructions for manually installing the Crown Print Monitor utility.
- Chapter 3.3 — “KONICA MINOLTA Status Monitor”
  Installation and user instructions for the Status Monitor utility.
- Chapter 3.4 — “Download Manager”
  Installation and user instructions for the Download Manager utility.
- Chapter 3.5 — “KONICA MINOLTA PageScope Net Care”
  Installation instructions for the PageScope Net Care printer mana gement utility.
- Chapter 3.6 — “NDPS Gateways”
  Installation and configuration information for the NDPS printer utility.

Chapter Location

Chapter	Title	Begins on page...
3.1	“Using Printer Utilities”	97
3.2	“KONICA MINOLTA Crown Print Monitor +”	101
3.3	“KONICA MINOLTA Status Monitor”	107
3.4	“Download Manager”	121
3.5	“KONICA MINOLTA PageScope Net Care”	129
3.6	“NDPS Gateways”	141

3.1 Using Printer Utilities

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What's Available

Your magicolor 7300 comes with a variety of applications that are designed to make the printer easier to use and manage. PageScope Light, a powerful web-based tool that lets you configure all your printer settings from your workstation via TCP/IP, is built into the printer. Five more utilities are available on the *Software Utilities* CD-ROM that came with the printer. You can also download many of these same utilities, as well as updated drivers and PPDs, from our website at www.konicaminolta.net/printer/.

The following table presents an overview of these utilities.

Name	Description	Begins on page...
Crown Print Monitor+ for Windows	Crown Print Monitor+ for Microsoft Windows XP/2000/Me/98/95/NT4—Transports print jobs to your printer over TCP/IP protocol and displays status information to the host via Print Manager. Online help is available after installation.	101
Download Manager	Download fonts, overlays, and color profiles from your PC (Windows-only) to your printer using this convenient tool. Can be launched from the Start menu or from the KONICA MINOLTA PostScript driver.	121
NDPS Gateways	Contains two server-based Novell Distributed Print System (NDPS) Gateway installers and support files. Online help is available after installation.	141
PageScope Net Care	A cross-platform utility providing access to printer management functions including status monitoring and network/printer parameter settings. Online help is available after installation.	129
PageScope Network Setup Utility	This utility provides basic configuration functions for network printers using TCP/IP and IPX protocols. Online help is available after installation.	See the *PageScope Network Setup User Manual* on the *Software Utilities* CD-ROM.

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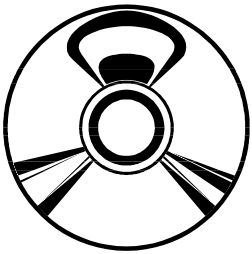
Name	Description	Begins on page...
PageScope Light	Using your printer's built-in web pages and your Internet web browser, PageScope Light gives you access to all of your printer settings via TCP/IP Ethernet connections. *PageScope Light is built into your printer and is not on the* Software Utilities *CD-ROM.*	197
Status Monitor for Windows	Printer Status Monitoring, Printer Polling, Task Bar Alerts, Email Notification, Consumable Supply Alerts, Recovery Instructions, Recovery Video Help, and Direct links via Internet to KONICA MINOLTA approved printer supplies, accessories, and support.	107



Installing Utilities from the CD-ROM

The *Software Utilities* CD-ROM has an automatic installer program. Simply insert the CD-ROM and follow the on-screen instructions for installation of most utilities.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

After installation is complete, remove the *Software Utilities* CD-ROM and store it in a safe place.

Efforts to enhance the features and performance of your KONICA MINOLTA printer utilities don't stop when you purchase our product.

We make every effort to bring you the very best, and as a result, occasionally update the printer utility software. For the latest printer utilities, check your printer's Support page on our website at www.konicaminolta.net/printer/.

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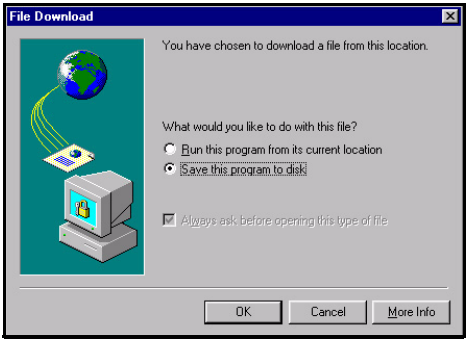
Downloading Printer Utilities from the Internet

Our Internet website (www.konicaminolta.net/printer/) contains the latest versions of our printer utilities. To download a printer utility, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and utility from the Drivers, PPDs and Utilities listing.

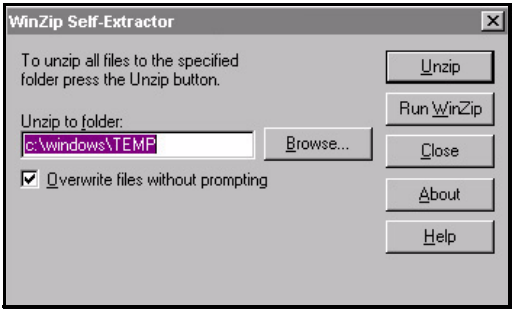
2 Select **Save this program to disk** when prompted. Save the download file to a new directory on your PC.


File Download
You have chosen to download a file from this location.
What would you like to do with this file?
Run this program from its current location
Save this program to disk
Always ask before opening this type of file
OK
Cancel
More Info

3 After the download is complete, use Windows Explorer to open the new directory created in step 2 above.

4 Double-click on the .exe file that was downloaded.

The .exe is a self-extracting WinZip file that allows you to uncompress the installation files. Select Browse, then locate and choose the new directory created in step 2. Select OK, and then select Unzip.



5 After the files are unzipped, close the WinZip Self-Extractor.

6 See the remaining chapters in this section for additional information on manually installing your printer's utilities.

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KONICA MINOLTA
Crown Print
Monitor+

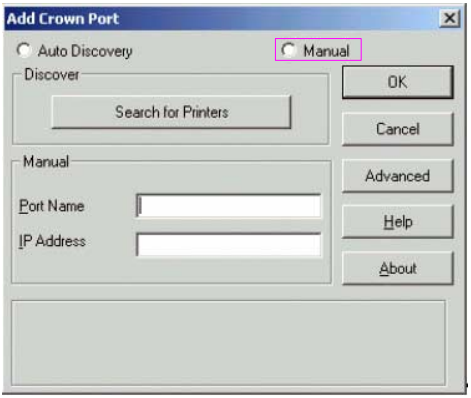
3.2

Installing the KONICA MINOLTA Crown Print Monitor+

The KONICA MINOLTA Crown Print Monitor+ is on the *Software Utilities* CD-ROM that comes with your printer and is also available from our Internet website (www.konicaminolta.net/printer/).

1 Select the Manual radio button from the Add Crown Port dialog box.

Auto Discovery and Search for Printers is not supported for magicolor 7300 printers.



2 Type the logical name for the port in the Port Name text box.

This is a descriptive identifier of the port. Each port name must be unique. The maximum port name is up to 128 characters. This name displays in the Print to: list box of the Printer Properties dialog box in Print Manager.

If the port name already exists, the following message displays:

You must choose another Port Name.

On initial access to the Add Port dialog box, whatever you type in the Port Name text box is automatically copied to the IP Address text box. The port name and IP address can be the same or they can be different. However, if they are different, then first click the cursor in the IP Address text box and type it. Then click the cursor in the Port Name text box and type it.

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3 Type the Internet Protocol Address for the port.

This address is either the unique host name or the dot notation identifier (IP address) of your printer.

What's a Host Name?

A symbolic name (a convenient way for people to refer to a host) that identifies network devices on your computer. This name must exist in your Network Host Name file and must be unique.

What's Dot Notation?

A unique set of four numbers (triplets), separated by periods, which identifies a 32-bit device address on the Internet. For example, 191.45.105.227 (note that leading zeroes are not used).

If an invalid or previously used IP address (host name or dot notation identifier) is given, the following message displays:

If you receive this message, you must do one of the following:

a Select **No** and type another valid IP address (this is what we recommend).

b Select **Yes** and add this address in the Network Host Name file on your computer before you send any print jobs to the port. If a print job is sent to the port before the address is entered in the Network Host Name file, the job does not print.

c Select **Cancel** to abort adding the port and to exit from the Add Port dialog box.

4 Select the **Advanced** button.

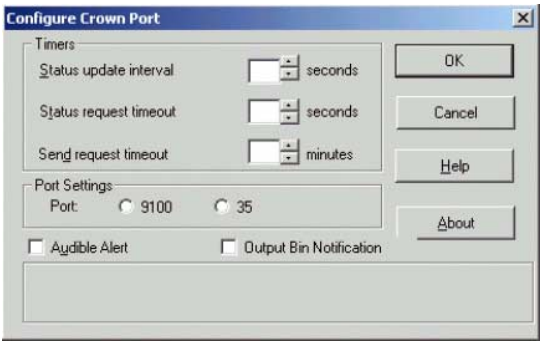
The Configure Crown Printer dialog box appears. Follow the configuration instructions in "Configure the Port" on page 104.

5 Select **OK**.

The Configure Crown Port dialog box closes.

Configure the Port

1 Configure the Timers.



Name	Default Setting	Function
Status Update Interval	5 Seconds	Determines how often the Crown Print Monitor+ updates Print Manager with status information on the printer attached to the port.
Status Request Timeout	10 Seconds	Sets the amount of time the Crown Print Monitor+ waits for a response from the printer before notifying the Print Manager that the printer is not responding.
Send Request Timeout	60 Minutes	Sets the amount of time the Crown Print Monitor+ waits for a print job to be sent before it returns control to the Microsoft Print Spooler. *If this timer expires and the job was sent via a Windows Me/98/95 Server, the print job is automatically terminated and cleared from the system.* *If this timer expires and the job was sent via a workstation, the Windows Me/98/95 Print Spooler dialog box displays, asking for a retry or cancel response. Regardless of your response, the job is terminated and cleared from the system.*

2 Select the **Port Settings** option and select **port 9100**.

3 Select **OK** and close the dialog box.

4 Restart your computer when prompted.

If you are updating an existing monitor, turn your system off and on again when prompted.

5 If you haven't already done so, install the printer driver for your printer.

Adding a Crown Port after Crown Print Monitor+ Installation

During Crown Print Monitor+ installation, the Add Crown Port dialog box is automatically opened for you so you can add a Crown port to your PC's configuration. You can use the following instructions to add a new Crown port at any time following the Crown Print Monitor+ installation.

The following assumes that Crown Print Monitor+ has already been installed on your PC.

Windows XP/2000/NT4

1 From the Start menu, choose **Settings**.

2 Choose **Printers**.

3 In Printers window click the right mouse button.

4 In the Properties dialog box select the **Ports** tab.

5 Select the **Add Port** button.

6 Select the **Printer Ports** button.

7 Choose **Crown Port** from the list then select **OK**.

The Add Port window appears. Follow the instructions on the screen.

8 Select **OK**.

9 Choose **Close in Printer Ports** dialog box, then choose **OK** in Print Server Properties to close the Printers window.

Windows Me/98/95

1 From the Start menu, choose **Settings**, and then **Printers**.

2 In the Printers window, click the right mouse button on an existing printer to display the printer's menu.

3 Choose **Properties** to display the Properties dialog box.

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4 Choose the Details tab, and then select **Add Port**.

5 Select **Other**.

6 Select **Crown Port** from the list, and then select **OK**.

The Add Port window appears. Follow the instructions on the screen.

7 Select **OK**.

8 Select **Close** in Printer Ports dialog box, then select **OK** in Print Server Properties to close the Printers window.

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KONICA MINOLTA 3.3
Status Monitor

Overview

The KONICA MINOLTA Status Monitor gives you a real-time link to your printer status and can help you resolve most typical printer problems.

Features

- Printer Status Monitoring
- Printer Polling
- Task Bar Alerts
- Email Notification
- Consumable Supply Alerts
- Recovery Instructions
- Recovery Video Help
- Direct links (Internet access required) to KONICA MINOLTA approved printer supplies, accessories, and support.

Requirements

- PC using Windows XP/2000/Me/98 or 95 Operating System
- magicolor 7300 connected via Ethernet (TCP/IP)
- KONICA MINOLTA PostScript Driver for Windows (installed)

If you choose the Compact Installation option when installing the KONICA MINOLTA Status Monitor you will also need the Software Utilities *CD-ROM (shipped with your printer) to view Recovery Video Help when using the KONICA MINOLTA Status Monitor. The videos on this CD-ROM are not copied to your PC unless the Complete Installation option is chosen during installation.*

KONICA MINOLTA PostScript Drivers are available from the Software Utilities *CD-ROM and from the Internet at www.konicaminolta.net/printer/.*

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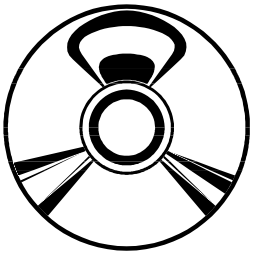


Installing from the CD-ROM

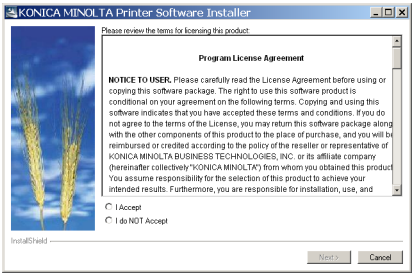
The *Software Utilities* CD-ROM has an automatic installer program.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

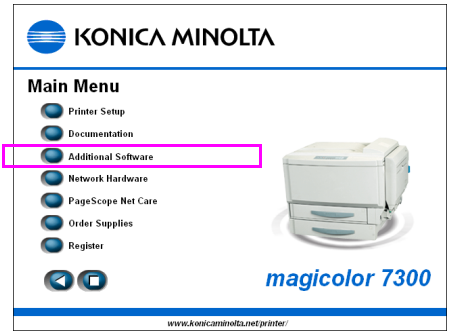
1 Select the language, select **OK**.

2 After reviewing and accepting the license agreement, select **Next**.

3 Select **Next** from the Introduction dialog.


KONICA MINOLTA Printer Software Installer
Please review the terms for licensing this product.
Program License Agreement
NOTICE TO USER. Please carefully read the License Agreement before using or copying this software package. The right to use this software product is conditional on your agreement on the following terms. Copying and using this software indicates that you have accepted these terms and conditions. If you do not agree to the terms of the License, you may return this software package along with the other components of this product to the place of purchase, and you will be reimbursed or credited according to the policy of the reseller or representative of KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. or its affiliate company (hereinafter collectively "KONICA MINOLTA") from whom you obtained this product. You assume responsibility for the selection of this product to achieve your intended results. Furthermore, you are responsible for installation, use, and
I Accept
I do NOT Accept
InstallShield
Next >
Cancel

4 From the Main Menu dialog, select **Additional Software**.



Section
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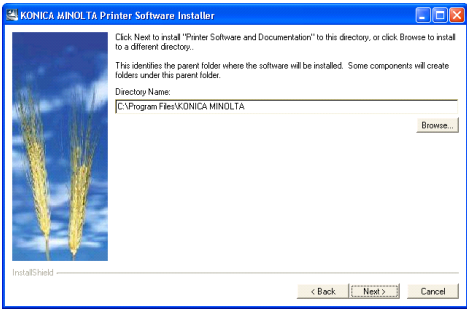
5 Choose the installation directory (or use the default directory setting).

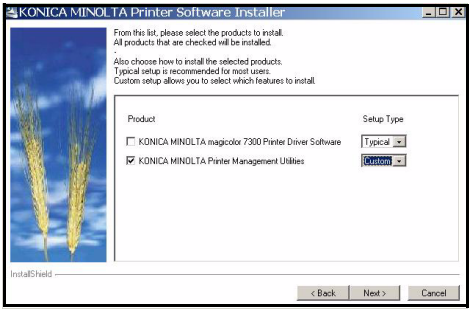
6 Select **Next**.


KONICA MINOLTA Printer Software Installer
Click Next to install "Printer Software and Documentation" to this directory, or click Browse to install to a different directory..
This identifies the parent folder where the software will be installed. Some components will create folders under this parent folder.
Directory Name:
C:\Program Files\KONICA MINOLTA
Browse...
InstallShield
< Back
Next >
Cancel

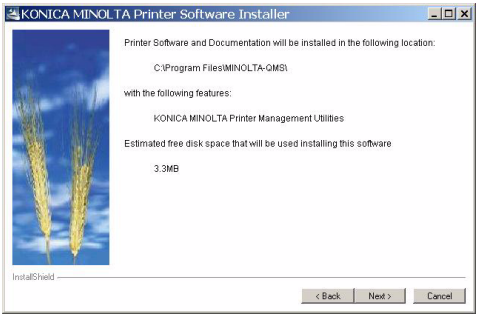
7 Choose (check) KONICA MINOLTA Printer Management Utilities and select **Custom** from the Setup Type list.

8 Select **Next**.

9 From the Printer Management Utilities dialog, select (check) KONICA MINOLTA **Status Monitor**. Make sure all other options are not checked, and then select **Next**.


KONICA MINOLTA Printer Software Installer
From this list, please select the products to install.
All products that are checked will be installed.
Also choose how to install the selected products.
Typical setup is recommended for most users.
Custom setup allows you to select which features to install.
Product
Setup Type
KONICA MINOLTA magicolor 7300 Printer Driver Software
Typical
KONICA MINOLTA Printer Management Utilities
Custom
InstallShield
< Back
Next >
Cancel

10 Select **Next** again.


KONICA MINOLTA Printer Software Installer
Printer Software and Documentation will be installed in the following location:
C:\Program Files\MINOLTA-QMS\
with the following features:
KONICA MINOLTA Printer Management Utilities
Estimated free disk space that will be used installing this software
3.3MB
InstallShield
< Back
Next >
Cancel

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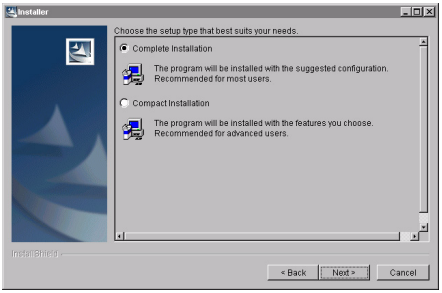
11 Follow the onscreen instructions until the Setup Options of the KONICA MINOLTA Status Monitor installer appear.

12 When the KONICA MINOLTA Status Monitor installation is complete, remove the *Software Utilities* CD-ROM from your CD-ROM drive and store it in a safe place.


Installer
Choose the setup type that best suits your needs.
Complete Installation
The program will be installed with the suggested configuration. Recommended for most users.
Compact Installation
The program will be installed with the features you choose. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

Using the KONICA MINOLTA Status Monitor

When a monitored printer issues an alert status, several things may occur within the application depending on how the application options are configured. Use the following procedure to detect and recover the printer status conditions.

Starting the KONICA MINOLTA Status Monitor

To begin monitoring printer status messages, start the KONICA MINOLTA Status Monitor program by selecting Programs/Status Monitor from the Start menu.

The application icon displays in the Windows task bar to indicate that the KONICA MINOLTA Status Monitor is running.

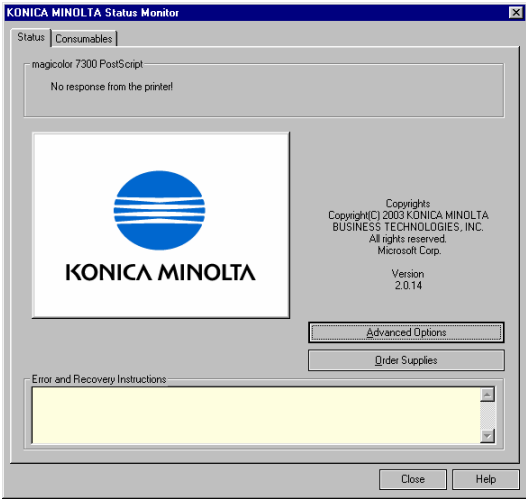
Opening the KONICA MINOLTA Status Monitor

There is method of opening the KONICA MINOLTA Status Monitor program windows:

- From the Windows task bar, double-click on the application's icon.

Status Tab

When the KONICA MINOLTA Status Monitor is opened the Status tab displays. From this tab you can review the current status of the printer, view recovery video and instructions, activate the link to an Internet site for ordering printer supplies, and open the Advanced Options dialog.



Item	Description
LCD display area	The upper portion of the tab is reserved for displaying messages that appear on the printer's control panel.
Recovery video help	Recovery videos are displayed in this area. Recovery videos illustrate many of the procedures that must be performed to return the printer to a ready status. *Because of the nature of some printer errors and warnings, not all status messages have a corresponding video file. If no video file exists for the present status of the printer, the KONICA MINOLTA logo is displayed.*
Recovery Instructions	This area displays the instructions that help guide you through procedures for eliminating problems and returning the printer to a ready status.
Advanced Options button	This button opens the Advanced Options dialog, which allows you to configure additional application options.
Order Supplies button	This button, configurable through the Advanced Options dialog, opens the designated URL for ordering printer supplies.

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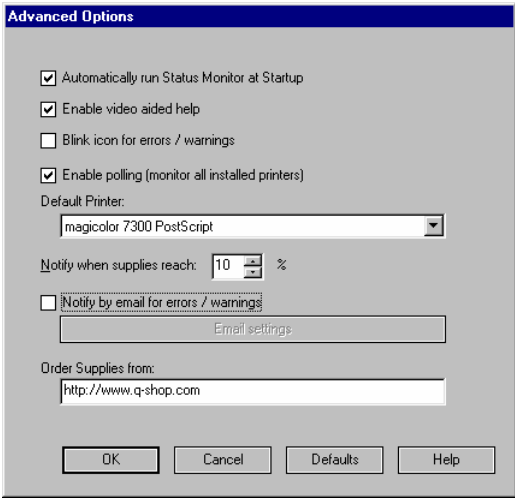
Item	Description
Close button	Closes the KONICA MINOLTA Status Monitor window. *This button does not turn off the monitoring element of the application which continues to run in the background.* *To stop monitoring, right-click on the application icon in the Windows task bar and choose Exit.*
Help button	Opens the KONICA MINOLTA Status Monitor online help file.

Advanced Options Dialog

The Advanced Options dialog allows you to configure how the KONICA MINOLTA Status Monitor responds to printer errors and warnings, and to configure additional options.



Item	Description
Automatically run KONICA MINOLTA Status Monitor at Startup	Enabling (checking) this check box configures the application to begin monitoring printer status as soon as the PC is turned on.
Enable video aided help	Enabling (checking) this check box allows recovery videos to be displayed from the Status tab.

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Item	Description
Blink icon for errors/ warnings	Enabling (checking) this check box configures the application to make the KONICA MINOLTA Status Monitor icon blink whenever a status message is received.
Enable polling (monitor all installed printers)	Checking this box causes the application to monitor and respond to messages received from all printers. When this option is not checked, the application responds only to the messages from the printer configured as the default printer.
Default printer	This drop-down list box is configurable when Polling is enabled and allows you to specify which printer is to be treated as the default printer. When the KONICA MINOLTA Status Monitor window is opened, the status area at the top of the Status tab displays the status of the default printer. *If the default printer is not a supported printer, the application uses the first printer it finds in the list that is supported as the default printer.*
Notify when supplies read	This box is configurable from 0%–100%.
Notify by email for errors/warnings	Enabling (checking) this check box activates the email notification feature and the email Settings button to allow you to configure the email settings for automatic messages. When email is enabled, status messages from the monitored printer automatically send an email message to the designated recipient. See the Email Setting Dialog for more information.
Email settings button	Opens the Email Settings dialog, which allows you to configure the email account and sending options.
Order supplies from	This field allows you to specify the URL that is opened whenever the Order Supplies button on the Status tab is clicked. The default value is the URL for the Q-SHOP website (www.q-shop.com), which offers online shopping for approved KONICA MINOLTA printer supplies.
OK button	Saves any changes to the configuration and closes the Advanced Options dialog.

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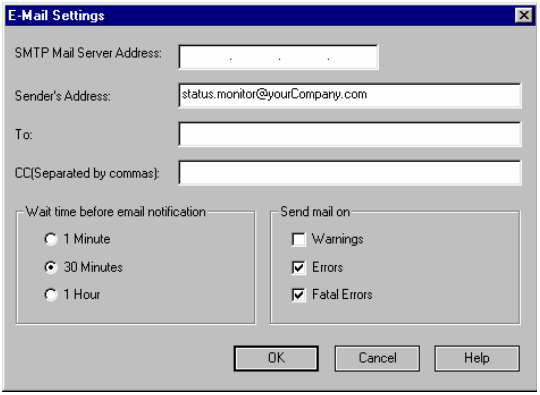
Item	Description
Cancel button	Ignores any changes to the configuration of this dialog and closes the Advanced Options dialog.
Defaults button	Restores the configuration settings to the default values. (Default values are the values that are set when the application is first installed on the PC).

E-Mail Settings Dialog

The E-Mail Settings dialog box (found on the Advanced Options Dialog) allows you to configure the email settings to be used whenever the Notify by email for errors/ warnings option is enabled on the Advanced Options dialog.



Item	Description
SMTP Mail Server Address	This field is provided for you to identify the IP address of your SMTP Mail Server.
Sender's Address	This field allows you to enter an email address that appears as the source of the automatically generated email message. If several workstations are assigned to monitor different printers in your organization, you can use this field to help identify the physical location of the originating message.
To	This field identifies who receives the automatically generated message when a status message is received by the KONICA MINOLTA Status Monitor.
CC	This field allows you to send the automatically generated message to additional email recipients. This option can be helpful if the To recipient is out of the office or unable to receive email.

Item	Description
Wait time before email notification	These option settings allow you to designate a delay period between a status alert and generation of an email about the alert. This setting can help minimize the number of email messages that are generated by allowing time for printer operators to address common alerts such as media out or toner low messages. Select from any of the available options.
Send mail on	Determines which type of status messages will cause the application to generate and send an email message. There are three types of status messages recognized by the KONICA MINOLTA Status Monitor: **Warnings**—indicate a warning condition such as "Toner Low." No immediate user intervention is required. **Errors**—indicate that user intervention is required before the printer can continue printing. For example, "Toner out." **Fatal Errors**—indicate that the printer has experienced an error that prevents it from printing. Fatal Errors usually indicate that the printer requires service.
OK button	Saves any configuration changes and closes the E-Mail Settings dialog.
Cancel button	Ignores any changes made to the configuration of this dialog and closes the E-Mail Settings dialog.

Consumables Tab

The consumables tab displays the status of consumables of the default printer. It also allows you to specify the level of remaining consumables life that will cause the application to send an email notification message.

The Notify by email for errors/warnings option on the Advanced Options dialog must be enabled to allow automatic email message generation by the application.

Item	Description
Consumable Item	The consumables tab displays status information about toner, print unit, and waste toner. For consumables usage, refer to "Replacing Consumables" in the *User's Guide*.

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Item	Description
Status bar	The status bar for each listed consumables item displays the percentage of consumables life remaining. For toner and the print unit, when the bar is green and fills the entire space of the field, the toner is full or the print unit has a full life available. When the amount reaches the threshold level set in the “Notify” option, the display turns red. There is no status bar for the waste toner box.
Notify when supplies reach	This text box contains the trigger percentage value that causes the application to send a status message email. When a consumables item equals the value in this field, the automatic email message feature is activated and a message is sent to the individual(s) configured as recipient(s).
Order Supplies button	This button, configurable through the Advanced Options dialog, opens the designated URL for ordering printer supplies.
Refresh button	When selected, this button causes the application to retrieve the latest status condition of the printer’s consumables items and then updates the status bars on this tab to display the current conditions.
Close button	Closes the KONICA MINOLTA Status Monitor window.
Help button	Opens the KONICA MINOLTA Status Monitor online help file.

Recognizing a Printer Alert

When the printer issues an alert, one or more of the following notification actions occur:

The application icon in the Windows Task Bar changes colors. The application icon changes colors to indicate what type of alert the printer has issued. This effect occurs regardless of optional configuration settings.

Task Bar Icon Color	Indicates
	Green indicates that the printer is operating normally.
	Yellow indicates that a WARNING condition exists. No immediate user intervention is required. Warnings indicate a condition, such as “Toner Low.”

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Task Bar Icon Color	Indicates
	Red indicates a fatal stop that must be addressed, such as “K Toner Out.”

- The application icon begins blinking. This effect is optional and is configured by the Blink Icon for Errors/Warnings option on the Advanced Options dialog.
- Email notification of the alert is automatically sent following the configured delay time. This action is optional and is configured by the Notify by Email for Errors/Warnings option on the Advanced Options dialog and the options located on the Email Settings dialog.

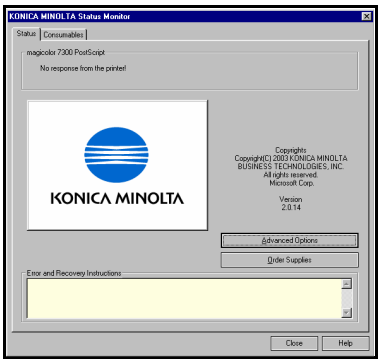
Recovery from a Printer Alert

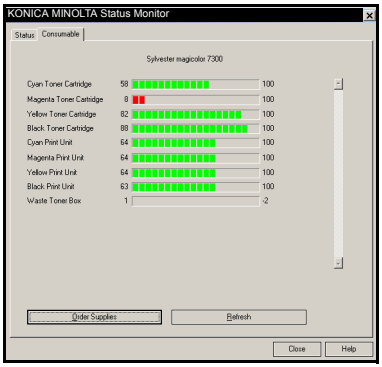
After you’ve received notification of an alert (see above, “Recognizing a Printer Alert”), perform these steps to recover from the problem.

1 Double-click on the KONICA MINOLTA Status Monitor icon in the Windows Task Bar.

The KONICA MINOLTA Status Monitor application window opens.

If not already selected, select the Status tab.





2 Identify the printer that has issued an alert.

The printer identity is displayed at the top of the Status Message Area (located near the top of the tab).

3 Review the status message.

The status message is displayed in the Status Message Area (located near the top of the tab). The status message appearing on the Status tab is identical to the message displayed on the printer control panel.

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4 Review the Recovery Instructions, and if present, review the Recovery Video Help.

Recovery instructions are prepared specifically for each alert that your printer can issue. However, due to the nature of some alerts, not all alerts have a corresponding video available. If there is no video available or if the Enable video aided help *option is disabled (unchecked) on the Advanced Options dialog, the KONICA MINOLTA logo is displayed.*

5 Perform the actions described by the instructions and illustrated by the video to clear the printer alert status.

The application icon in the Windows Task Bar changes to a green color to indicate normal printer status.

6 Select the Close button at the bottom of the KONICA MINOLTA Status Monitor window.

The KONICA MINOLTA Status Monitor application window is closed and the application continues to run in the background.

Closing the Application

To close the KONICA MINOLTA Status Monitor application and to halt all monitoring of printer status messages, right-click on the KONICA MINOLTA Status Monitor icon in the Windows task bar and then choose Exit.

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Download Manager 3.4

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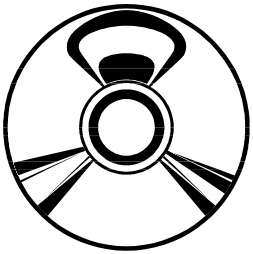
Installing the Download Manager for Windows

If your printer has an installed hard disk, you may want to install the Download Manager. The Download Manager makes it easy to add ICC (International Color Consortium) profiles, overlays, and fonts to your printer's hard drive. You can also use the Download Manager to install fonts to your printer's memory (RAM). This chapter describes how to install and use the Download Manager application.

Requirements

- PC with Windows XP/2000/NT4/Me/98/95
- magicolor 7300 printer with a hard disk installed
- PostScript Level 3 printer driver with the port set to the target printer

KONICA MINOLTA PostScript Drivers are available from the Software Utilities CD-ROM and from the Internet at www.konicaminolta.net/printer/.



Installing from the CD-ROM

The *Software Utilities* CD-ROM has an automatic installer program.

The Installer application automatically runs on most PCs. If your PC configuration prevents the Installer from auto-running, browse to the CD and double-click on the setup.exe file in the root directory to start the Installer application.

Running the Easy setup type automatically installs the Download Manager for you. Use the following instructions if you want to install only the Download Manager, without installing the other items that are installed when Easy is selected.

1 Select the language and select **OK.**

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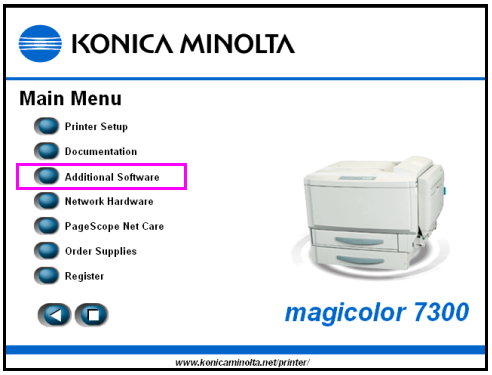
2 Select **Next** from the Introduction dialog.

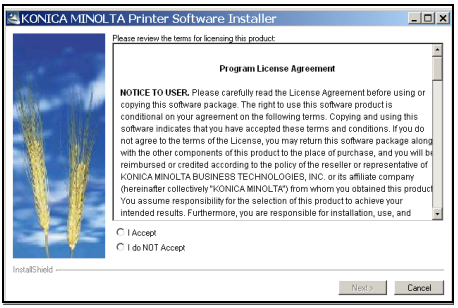
KONICA MINOLTA
Introduction
Dear Customer,
Thank you for investing in a KONICA MINOLTA printer. Please register your printer to ensure the best support and warranty service.
Administrative rights are required to perform this function.
Please logon with an account that has Administrative access to this workstation.
magicolor 7300

3 From the Main Menu dialog, select **Additional Software**.



4 After reviewing and accepting the license agreement, choose the installation directory (or use the default directory setting).

5 Select **Next**.


KONICA MINOLTA Printer Software Installer
Please review the terms for licensing this product:
Program License Agreement
NOTICE TO USER. Please carefully read the License Agreement before using or copying this software package. The right to use this software product is conditional on your agreement on the following terms. Copying and using this software indicates that you have accepted these terms and conditions. If you do not agree to the terms of the License, you may return this software package along with the other components of this product to the place of purchase, and you will be reimbursed or credited according to the policy of the reseller or representative of KONICA MINOLTA BUSINESS TECHNOLOGIES, INC. or its affiliate company (hereinafter collectively "KONICA MINOLTA") from whom you obtained this product. You assume responsibility for the selection of this product to achieve your intended results. Furthermore, you are responsible for installation, use, and
I Accept
I do NOT Accept
InstallShield
Next >
Cancel

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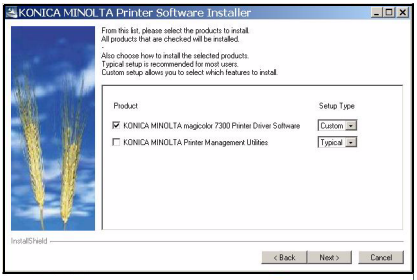
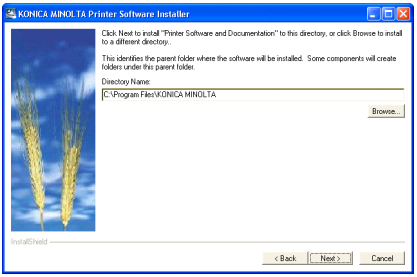
6 Choose (check) **Printer Driver Software** and select **Custom** from the Setup Type list.

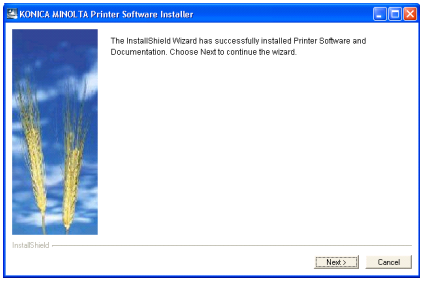

KONICA MINOLTA Printer Software Installer
From this list, please select the products to install.
All products that are checked will be installed.
Also choose how to install the selected products.
Typical setup is recommended for most users.
Custom setup allows you to select which features to install.
Product
Setup Type
KONICA MINOLTA magicolor 7300 Printer Driver Software
Custom
KONICA MINOLTA Printer Management Utilities
Typical
InstallShield
< Back
Next >
Cancel

7 Select the Download Manager Utility checkbox. Make sure all other options are not checked and then select **Next**.

8 Follow the onscreen instructions to complete the installation.


KONICA MINOLTA Printer Software Installer
Click Next to install "Printer Software and Documentation" to this directory, or click Browse to install to a different directory.
This identifies the parent folder where the software will be installed. Some components will create folders under this parent folder.
Directory Name:
C:\Program Files\KONICA MINOLTA
Browse...
InstallShield
< Back
Next >
Cancel

9 When the Information message box appears, select **Finish**.


KONICA MINOLTA Printer Software Installer
The InstallShield Wizard has successfully installed Printer Software and Documentation. Choose Next to continue the wizard.
InstallShield
Next >
Cancel

10 After the installation is complete, remove the *Software Utilities* CD-ROM from your CD-ROM drive and store it in a safe place.

Downloading a Printer Utility from the Internet

Our Internet website (www.konicaminolta.net/printer/) contains the latest printer utilities. To download a printer utility, follow the instructions below.

1 Using your Internet Browser, go to the Support page for your printer and choose the platform and utility from the Drivers, PPDs and Utilities listing.

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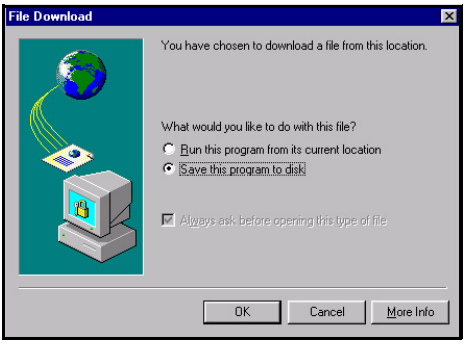
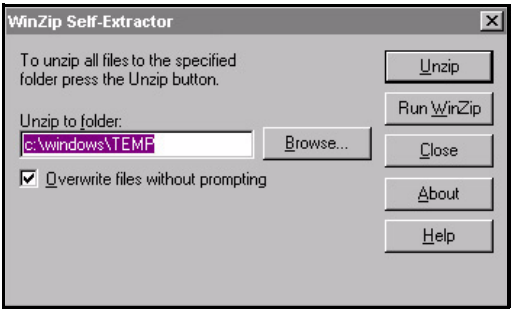
2 Select Save this program to disk when prompted. Save the download file to a new directory on your PC.

3 After the download is complete, use Windows Explorer to open the new directory created in step 2.

4 Double-click on the mqdl.exe file that was downloaded.


File Download
You have chosen to download a file from this location.
What would you like to do with this file?
Run this program from its current location
Save this program to disk
Always ask before opening this type of file
OK
Cancel
More Info

The mqdl.exe is a self-extracting WinZip file that allows you to uncompress the installation files. Select ***Browse****, then locate and choose the new directory created in step 2 above. Select* ***OK****, and then select* ***Unzip****.*



5 After the files are unzipped, close the WinZip Self-Extractor.

6 Open the directory containing the unzipped installation files and then continue with the installation steps described in the next section, beginning with step 2 on page 126.

Manual Installation

If you don't want to use the *Software Utilities* CD-ROM auto-installer or if you've downloaded a newer version of the Download Manager for installation, use the following instructions to manually install the application.

If you've downloaded the Download Manager from the Internet, browse to the directory containing the extracted download files and begin with step 2.

1 Insert the *Software Utilities* CD-ROM into your CD-ROM drive. If the auto-installer opens, close it. Then using Windows Explorer, select your

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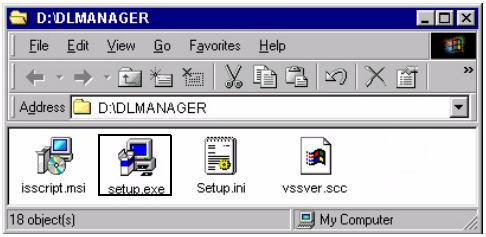
CD-ROM drive and browse to the folder :\utilities\dlmanager(where is the letter of your CD-ROM drive).

2 Double-click on the setup.exe icon. The Setup program automatically detects the Windows platform, and opens the Install Wizard. Follow the directions on the screen.



3 When the information message box appears, select **OK**.

4 After the installation is complete, remove the *Software Utilities* CD-ROM from your CD-ROM drive and store it in a safe place.

Using the Download Manager

The Download Manager application can be opened from within the printer driver or independently.

Opening the Download Manager from the Printer Driver—PC

A link to the Download Manager is provided in the property windows of the KONICA MINOLTA printer driver for the magicolor 7300.

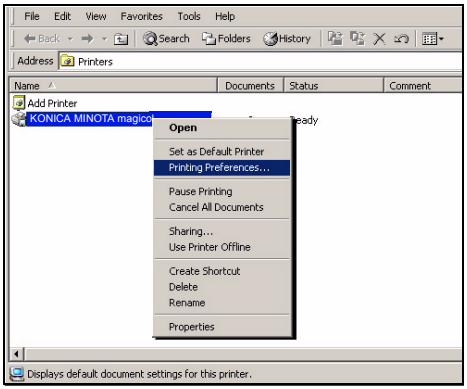
Windows XP/2000/NT4

1 From the Start menu, choose **Settings/Printers** and locate the printer icon.

2 Right-click on the printer icon and choose **Printing Preferences**.

3 Choose the **Overlays** tab, and then select the **Download Manager** button.

The Download Manager application opens.



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See the Download Manager online help for information about using the application's controls and features.

Windows Me/98/95

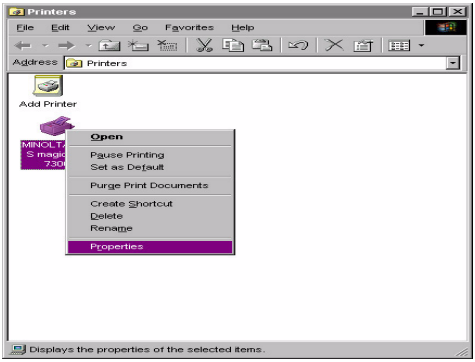
1 From the Start menu, choose **Settings/ Printers** and locate the printer icon.

2 Right-click on the printer icon.

3 Choose **Properties**.

4 Choose the **Details** tab, and then select **Setup**.

5 Choose the **Overlays** tab, and then select the **Download Manage**r button.



The Download Manager application opens.

See the Download Manager online help for information about using the application's controls and features.

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KONICA MINOLTA PageScope Net Care 3.5

PageScope Net Care Overview

PageScope Net Care is a utility designed for administrators that want the ability to manage all network printers from a single location. Management tools include printer status checks, printer configuration, and job accounting.This flexible tool can also be used to manage related equipment, such as copiers, that are linked to the network.

PageScope Net Care is available for Windows and Linux platforms for the server; and Windows, Macintosh, and Linux platforms for the client.

This chapter explains how to install PageScope Net Care, how to start the server and the client, how to log in, and how to update your installed version of PageScope Net Care. For details on how to use PageScope Net Care to manage printers and other equipment on your network, see the *PageScope Net Care Quick Guide* on the CD-ROM that came with your printer or on our website at www.konicaminolta.net/printer/.

System Requirements

Network

Local Area Network Type	Protocol
Ethernet (10/100BaseT)	**TCP/IP**
Token Ring (4/16 Mbps)	

Server

Operating System	Recommended Hardware
Windows XP/2000/NT4/Me/98/95	Pentium 300 with 128MB RAM
Linux (x86 kernel 2.2.12 and glibc 2.1.2-11 or higher)	Pentium 300 with 128MB RAM

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Client

Java Style View		
Operating System	**Web Browser**	**Java Environment**
Windows XP/2000/NT4 (SP3)/ Me/98	■ Microsoft Internet Explorer 4.x or later ■ Netscape Communicator 4.x or higher ■ Netscape 6.x or higher	Java Plug-in 1.3 or higher
Linux (x86 kernel 2.2.12 and glibc 2.1.2-11 or higher)	■ Netscape 6.x or higher	
Notes: Do not downgrade from the web browser that comes installed with your operating system.		

HTML Style View	
Operating System	**Web Browser**
Windows XP/2000/NT4 (SP3)/ Me/98/95	■ Microsoft Internet Explorer 4.x or later ■ Netscape Communicator 4.x or higher ■ Netscape 6.x or higher
Macintosh OSX/9	
Linux (x86 kernel 2.2.12 and glibc 2.1.2-11 or higher)	■ Netscape 6.x or higher
Notes: Windows XP (version X.1 or higher). Do not downgrade from the web browser that comes installed with your operating system. See the Read Me! file on the *PageScope Net Care Quick Guide* for information about the Macintosh.	

Installing the PageScope Net Care Server

Windows XP/2000/NT4/Me/98/95

1 Double-click the self-extracting file on the *Software Utilities* CD-ROM. The file is also available in the Support & Drivers section of our website at printer.konicaminolta.net/support.

2 Follow the instructions that appear on the screen.

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Linux

The server is started as a daemon process, so use root privileges to perform the operations and install the package in the root partition.

1 Double-click the self-extracting file on the *Software Utilities* CD-ROM. The file is also available in the Support & Drivers section of our website at printer.konicaminolta.net/support.

2 Untar the archive `PageScope Net Care.tar.gz`. This creates a directory called PageScope_Net_Care.

3 Open the PageScope_Net_Care directory and run the script `install.sh`.

If you use SuSE Linux, run the script `install.suse.sh`*, which is also located in the PageScope directory.*

Starting the Server

Windows XP

1 Click Start/Control Panel.

2 Click the Administrative Tools icon.

Windows XP Professional: First click the Performance and Maintenance icon, then the Administrative Tools icon.

Windows XP Home: The Administrative Tools icon is on the Control Panel.

3 Double-click the Services icon.

4 Select KONICA MINOLTA PageScope Net Care from the list of services.

5 Click Start the service.

Windows 2000

1 Click Start/Settings/Control Panel.

2 Open the Administrative Tools folder.

3 Double-click the Services icon.

4 Select KONICA MINOLTA PageScope Net Care Service from the list of services.

5 Click Start on the Action menu.

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Windows NT4

1. Click Start/Settings/Control Panel.
2. Double-click the Services icon.
3. Select KONICA MINOLTA PageScope Net Care Service from the list of services.
4. Click Start.

Windows Me/98/95

To start the server, click Start/Programs/KONICA MINOLTA PageScope_Net_Care/Start Server or double-click the start_pagescope.bat file in the PageScope_Net_Care home directory.

During the installation process, you can configure the server to start automatically whenever the system boots up.

Linux

PageScope Net Care starts automatically on Linux systems once it is installed. You can also start it manually, or shut it down momentarily and restart it.

Use root privileges to perform these operations.

To start PageScope manually, type:

```
#/etc/rc.d/init.d/nmu start
```

To stop momentarily and restart, type:

```
#/etc/rc.d/init.d/nmu restart
```

Starting the Client

1. Open a browser that includes the required Java plug-in.
2. Type the following URL:

   `http://SERVER_NAME:PORT_NUMBER/`

   In place of `SERVER_NAME`*, type the IP address of the host that is running the PageScope Net Care server.*

   The default port number for PageScope Net Care is http://server-name:9090.

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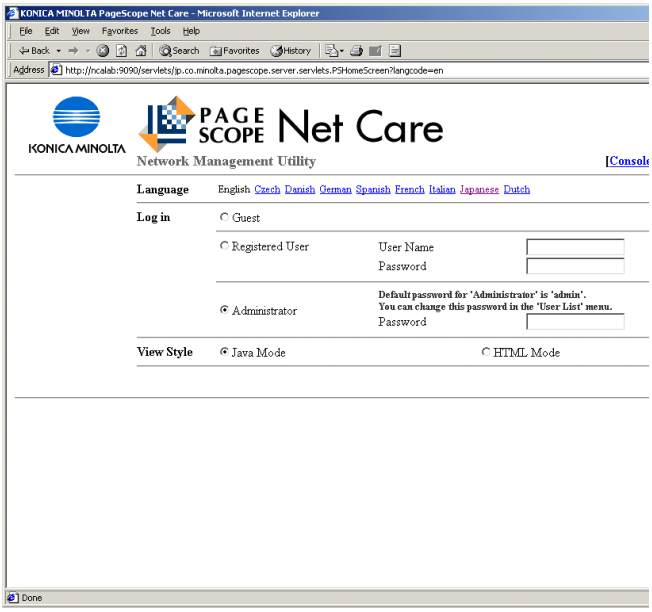
The following log-in screen appears:



Logging In

On the main Login screen, you can set your preferences for:

- Java mode
- HTML mode

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User Privileges

Login	Password	Privileges
Guest	**Not Required**	View status and settings of network devices.
Registered User	**Required** Administrator assigns name and password to registered users.	Manage and change the configuration of assigned network devices.
Administrator	**Required** The default password is admin.	Configure device management settings and PageScope Net Care settings.

View Style Options

You can select from four view styles:

- Java-Metal
- Java-Motif
- Java-System
- HTML

HTML is recommended for faster performance on low-end servers.

If you select Java mode but do not have the required plug-in, you are asked if you want to install one. If you agree, the download process depends on your web browser:

- Internet Explorer. The Java plug-in is downloaded and installed automatically from the Internet.
- Netscape Communicator. The browser accesses a Java plug-in download site, but you must perform the download and installation manually.

Language

You can set the language in which PageScope Net Care text is displayed. Choices are Czech, Danish, Dutch, English, German, French, Italian, Japanese, and Spanish.

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Completing Your Login

Once you have set the user privileges, view style, and language options the way you want them, click the Login button to select your choices and begin using PageScope Net Care.

For more information about using PageScope Net Care, see the PageScope Net Care Quick Guide *on the* Documentation *CD-ROM that came with your printer.*

Starting the Server Console Tool

The Server Console Tool is used to perform these operations in PageScope Net Care:

- Change the PageScope Net Care Server (HTTP server) port
- Initialize, backup, restore, or upgrade the database
- Plug in new device modules
- Plug in new language modules
- Update PageScope Net Care

Windows

To start the Server Console Tool in any Windows platform, click Start/Programs/KONICA MINOLTA/PageScope Net Care/Console Tool.

Linux

Use root privileges to perform these operations. To use Console Tool, the PageScope Net Care server cannot be running.

To start the Server Console Tool, type:

```
#/etc/rc.d/init.d/nmu console
```

Shutting Down the PageScope Net Care Server

Windows XP

1 Click Start/Control Panel.

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2 Click the Administrative Tools icon.

Windows XP Professional: First click the Performance and Maintenance icon, then the Administrative Tools icon.

Windows XP Home: The Administrative Tools icon is on the Control Panel.

3 Double-click the Services icon.

4 Select KONICA MINOLTA PageScope Net Care.

5 Click Stop the service.

Windows 2000

1 Click Start/Settings/Control Panel.

2 Open the Administrative Tools folder.

3 Double-click the Services icon.

4 Select KONICA MINOLTA PageScope Net Care Service.

5 On the Action menu, select Stop.

Windows NT4

1 Click Start/Settings/Control Panel.

2 Double-click the Services icon.

3 Select KONICA MINOLTA PageScope Net Care Service.

4 Click the Stop button.

5 Click Yes on the confirmation dialog box.

Windows Me/98/95

1 Right click the PageScope Net Care icon in the task tray.

2 Select Exit.

3 Click the Shut Down button on the confirmation window.

Linux

Use root privileges to perform these operations.

Shut down the PageScope server by typing.

```
#/etc/rc.d/init.d/nmu stop
```


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Upgrading PageScope Net Care

***If a printer on the server is upgraded**, delete it from List Manager and then let List Manager find and register it again or add it to the list again using Add Printer. This updates the information about the printer.*

Upgrade Notes

You can upgrade from PageScope 3.6 or later, but not from earlier versions.

Upgrades work best if performed at the same time as the installation. Upgrading after installation causes all PageScope Net Care 4.0 data to be replaced by old PageScope data.

Shut down the PageScope Net Care server before upgrading it.

All Platforms

1 If you are running an old version of PageScope, shut down the server.

Specify a different directory for PageScope Net Care than the one where the old version of PageScope is installed.

2 If PageScope Net Care is running, shut it down.

3 Start the Server Console Tool.

4 Click the Database tab.

5 Select Database Upgrade.

6 Click Browse and select the PageScope 3.x root directory.

Usually PageScope 3.x is stored in Program Files/PageScope.

7 Click Open.

8 Confirm the page and click OK.

The next time you start PageScope Net Care, the old PageScope Server data is transferred to the PageScope Net Care server.

9 Uninstall the old version of PageScope.

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Uninstalling PageScope Net Care

Windows XP

1. Shut down the PageScope Net Care server.
2. Click Start/Control Panel.
3. Click the Add/Remove programs icon.

   A dialog box appears.
4. On the Add/Remove Programs dialog box, select KONICA MINOLTA PageScope Net Care in the list of programs.
5. Click the Change/Remove button.
6. Follow the instructions that appear on the screen.

Windows 2000/NT4

1. Shut down the PageScope Net Care server.
2. Click Start/Settings/Control Panel.
3. Double-click the Add/Remove programs icon.

   A dialog box appears.
4. On the Add/Remove Programs dialog box, select KONICA MINOLTA PageScope Net Care in the list of programs.
   - Windows 2000. Click the Change/Remove button.
   - Windows NT4. Click the Add/Remove button.
5. Follow the instructions that appear on the screen.

Windows Me/98/95

1. Shut down the PageScope Net Care server.
2. Click Start/Settings/Control Panel.
3. Double-click the Add/Remove programs icon.

   A dialog box appears.
4. On the Add/Remove Programs dialog box, select KONICA MINOLTA PageScope Net Care in the list of programs.
5. Click the Add/Remove button.
6. Follow the instructions that appear on the screen.

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Linux

Use root privileges to perform these operations.

1 Shut down the PageScope Net Care server by typing:

```
#/etc/rc.d/init.d/nmu stop
```

2 Run the `uninstall.sh` script in the PageScope_Net_Care directory.

3 Delete the PageScope_Net_Care directory by typing:

```
# rm -rf PageScope_Net_Care
```


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NDPS Gateways 3.6

NDPS Gateways

Your printer comes with two NDPS Gateways to choose from that support the magicolor 7300 printer.

- KONICA MINOLTA **PageScope NDPS Gateway**—supports use with the magicolor 7300 *and* KONICA MINOLTA digital copier products. See the PageScope NDPS Gateway manual for installation and usage instructions.

  The manual for PageScope NDPS Gateway can be downloaded from http://www.pagescope.com.

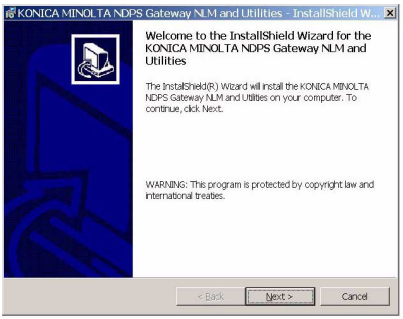
- KONICA MINOLTA **NDPS Gateway**—supports use with the magicolor 7300. The remainder of this chapter describes the installation and usage instructions.

Installing KONICA MINOLTA NDPS Gateway

The KONICA MINOLTA NDPS Gateway components are designed for use with printers supporting LPD/LPR and the Printer-MIB. Older printers, printers that don't use a CrownNet interface for TCP/IP connection, or printers with variations in the interpretation of LPD/LPR may not be compatible or may not be able to take advantage of the full functionality of our gateway components. Refer to your printer documentation to determine if LPD/LPR support is available for your printer.

1. If it's not already inserted, insert the *Software Utilities* CD-ROM.
2. Using Windows Explorer, select your CD-ROM drive and browse to the directory ✇:\Utilities\Gateway (where ✇ is the letter of your CD-ROM drive).
3. Double-click the setup.exe icon.

   The installation program starts.
4. Select **Next**.


KONICA MINOLTA NDPS Gateway NLM and Utilities - InstallShield W...
Welcome to the InstallShield Wizard for the KONICA MINOLTA NDPS Gateway NLM and Utilities
The InstallShield(R) Wizard will install the KONICA MINOLTA NDPS Gateway NLM and Utilities on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

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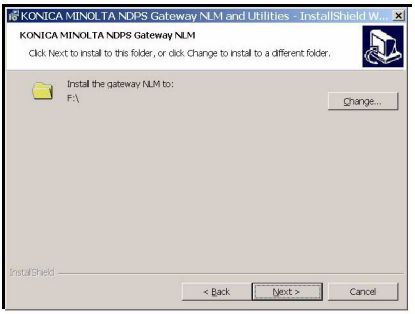
5 Verify that the path to the system directory is correct.

If you need to change the path, select the Change button to locate and choose the system directory.

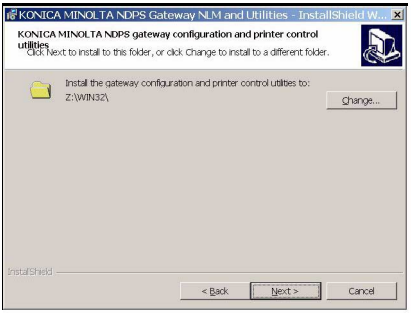
6 Select **Next**.


KONICA MINOLTA NDPS Gateway NLM and Utilities - InstallShield W...
KONICA MINOLTA NDPS Gateway NLM
Click Next to install to this folder, or click Change to install to a different folder.
Install the gateway NLM to:
F:\
Change...
InstallShield
< Back
Next >
Cancel

7 Verify that the path to the public\win32 directory is correct.

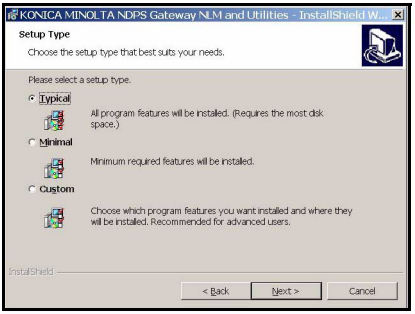
If you need to change the path, select the Change button to locate and choose the public\win32 directory.

8 Select **Next**.


KONICA MINOLTA NDPS Gateway NLM and Utilities - InstallShield W...
KONICA MINOLTA NDPS gateway configuration and printer control utilities
Click Next to install to this folder, or click Change to install to a different folder.
Install the gateway configuration and printer control utilities to:
Z:\WIN32\
Change...
InstallShield
< Back
Next >
Cancel

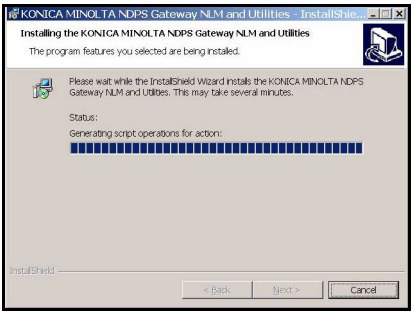
9 Verify that the installation information is correct.

If you need to change the installation, select Back. Make your changes before continuing.


KONICA MINOLTA NDPS Gateway NLM and Utilities - InstallShield W...
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Typical
All program features will be installed. (Requires the most disk space.)
Minimal
Minimum required features will be installed.
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

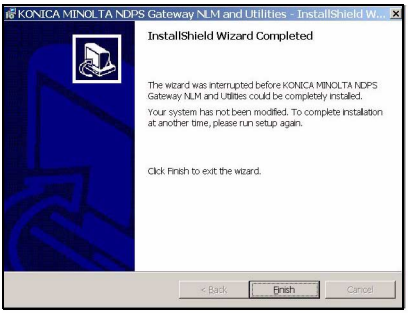
10 Select **Install**.

The KONICA MINOLTA Gateway and utilities are installed.


KONICA MINOLTA NDPS Gateway NLM and Utilities - InstallShie...
Installing the KONICA MINOLTA NDPS Gateway NLM and Utilities
The program features you selected are being installed.
Please wait while the InstallShield Wizard installs the KONICA MINOLTA NDPS Gateway NLM and Utilities. This may take several minutes.
Status:
Generating script operations for action:
InstallShield
< Back
Next >
Cancel

11 When the installation is complete, select **Finish**.

12 After the installation program closes, remove the *Software Utilities* CD-ROM and store it in a safe place.


KONICA MINOLTA NDPS Gateway NLM and Utilities - InstallShield W...
InstallShield Wizard Completed
The wizard was interrupted before KONICA MINOLTA NDPS Gateway NLM and Utilities could be completely installed.
Your system has not been modified. To complete installation at another time, please run setup again.
Click Finish to exit the wizard.
< Back
Finish
Cancel

Configuring NDPS

The steps to configure KONICA MINOLTA NDPS components are

- Create a Broker
- Create a Manager
- Create a Printer Agent
- Setup NDPS Printers using
  - Add Printer Wizard, or
  - NetWare Print Manager

The following sections contain detailed instructions about these steps and information about the printing features available through KONICA MINOLTA NDPS components. For additional information about NDPS, refer to Novell documentation and online help.

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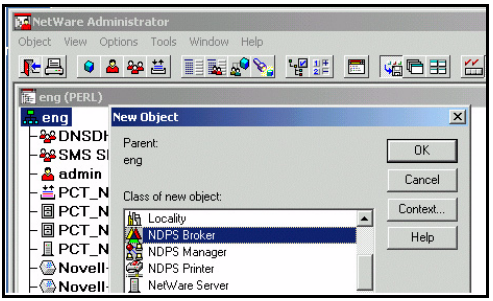
Creating a Broker

1 Open NWAdmin and select the container where you want to place the broker.

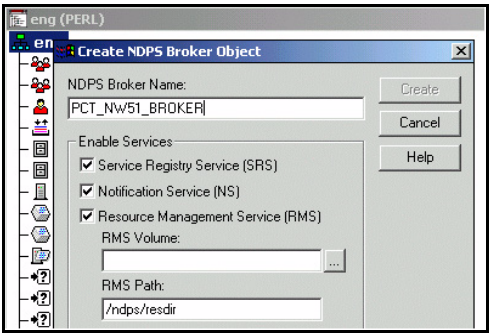
2 Select Object, and then select **Create**.

3 Select NDPS Broker, and then select **OK**.



4 Enter the name for the NDPS Broker.

5 Select the button next to the RMS Volume text box. Choose the volume where the broker will reside.



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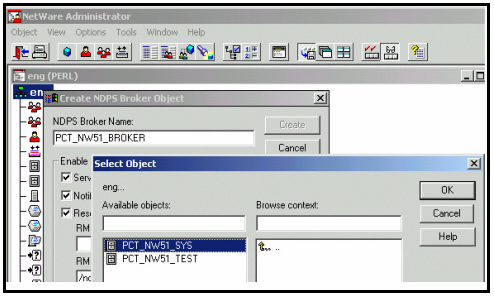
6 Select **Create**.

7 Check the configuration for access control to make sure that the Administrator is on the list.

8 Load the Broker at the Server console by typing:



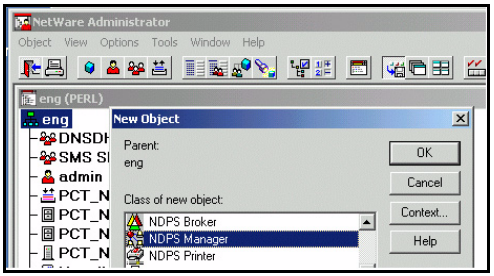

```
Load broker ".<broker name>.<context where broker
resides>"
```

Creating an NDPS Manager

1 In NWAdmin, select the container where you want to place the manager.

2 Select Object, and then select **Create**.

3 Select the NDPS Manager, and then select **OK**.



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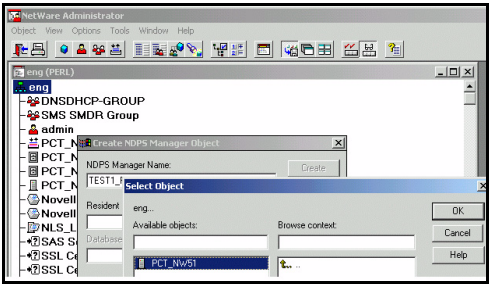
4 Enter the name for the NDPS Manager.

5 Select the button next to the Resident Server text box.

6 Select the Server (usually in the server's SYS volume) where the manager will be created, and then select **OK**.



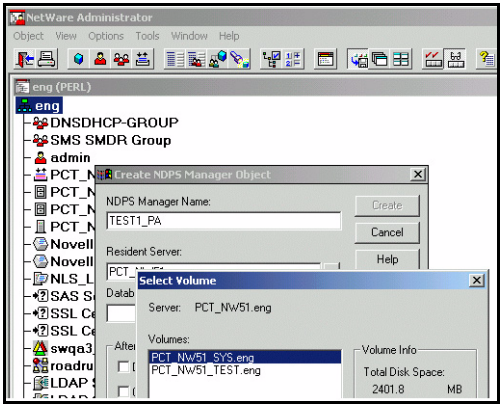
7 Select the button next to the Database Volume text box.

8 Select the Volume where the manager will be created, and then select **OK**.

9 Select **Create**.

10 Check the configuration for access control to make sure that the Administrator is on the list.

11 Load the NDPS Manager at the Server console by typing:




```
Load ndpsm "<NDPS manager name>"
```

12 Check the Server console for the Windows Printer Agent List.

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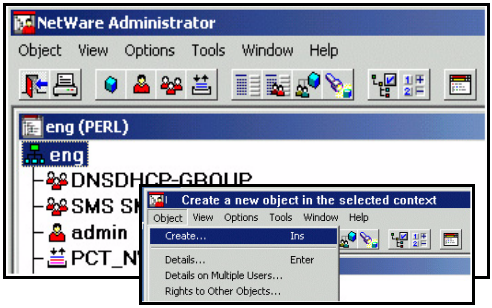
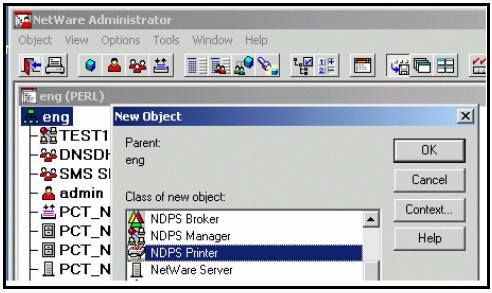
Creating a Printer Agent

1 In NWAdmin, select the container where you want to place the Printer Agent.



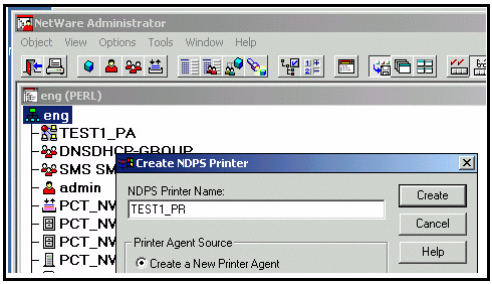
2 Select **Object**, and then select **Create**.

3 Select NDPS Printer, and then select **OK**.



4 Type in the name for the Printer Agent's name.

5 Select **Create**, and then select the NDPS Manager.



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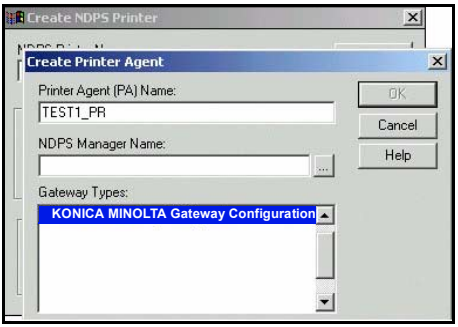
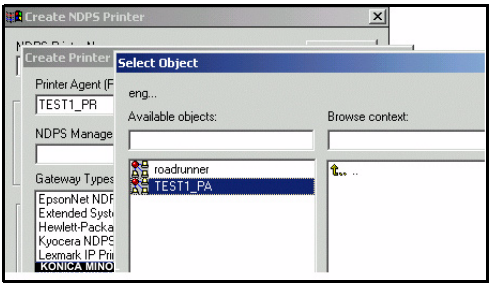
6 Choose KONICA MINOLTA Gateway Configuration, and then select **OK**.

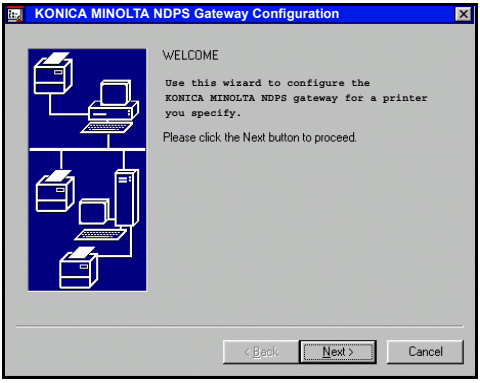


7 Choose the NDPS Manager that has access to the printer. Look for the NPDS Manager created in the previous section.



8 Select **OK**.

The snap-in configuration window appears.


KONICA MINOLTA NDPS Gateway Configuration
WELCOME
Use this wizard to configure the KONICA MINOLTA NDPS gateway for a printer you specify.
Please click the Next button to proceed.
< Back
Next >
Cancel

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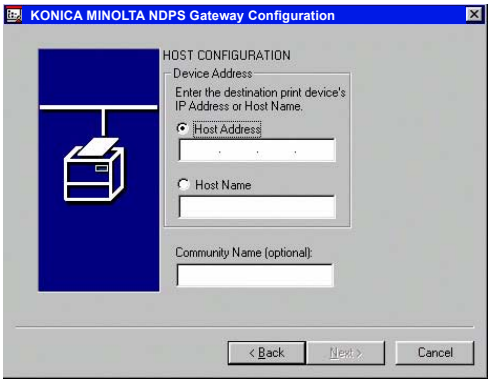
9 Select **Next**.

The Host Configuration window appears

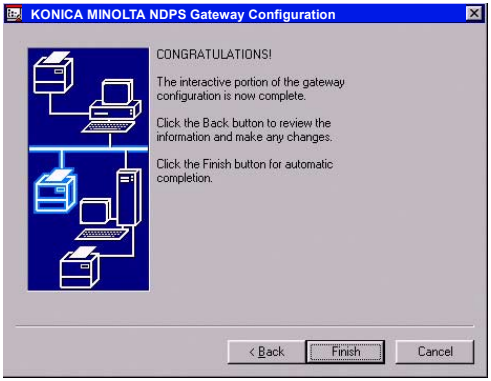


10 Enter the IP Address or Host Name of the printer.

11 Enter the Community Name of the printer.

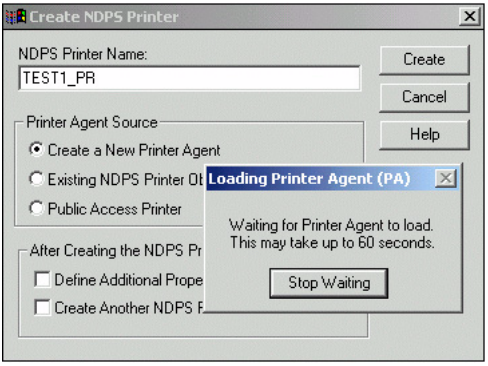
This step is optional.

12 Select **Next**, and then select **Finish** to complete the configuration of the Printer Agent.


KONICA MINOLTA NDPS Gateway Configuration
CONGRATULATIONS!
The interactive portion of the gateway configuration is now complete.
Click the Back button to review the information and make any changes.
Click the Finish button for automatic completion.
< Back
Finish
Cancel

A message window displays to indicate that the server is creating the object on the server and starts binding the object with the print system.

After the Printer Agent is finished loading, the Select Printer Driver window appears.



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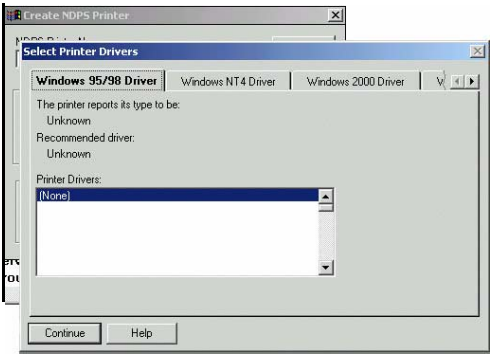
13 Select the drivers from the drop-down list for each OS (workstation).

14 Select **Continue**.

An Information window displays.



15 Check the information for the selected drivers, and then select **OK**.

To configure individual workstations, see Section 2 for instructions on installing drivers and host software, and then add NDPS printers as described in the next section.

Information -- NDPS
You have selected the following drivers to be installed when this printer is installed:
Windows 3.x: QMS PostScript Printer
Windows 95: QMS PostScript Printer (Windows 3.x)
Windows NT4: (None)
Windows 2000: KONICA MINOLTA magicolor 7300
OK
Cancel

NDPS Printer Setup using Add Printer

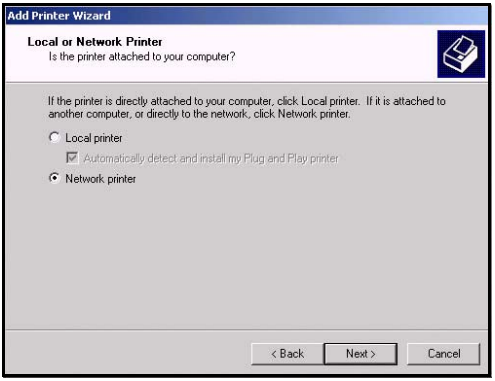
1 Select Printers from the Start/Settings menu.

2 Select **Add Printer**.

Local or Network Printer window appears.

3 Select **Network printer,** and then select **Next**.

Locate Your Printer window appears.


Add Printer Wizard
Local or Network Printer
Is the printer attached to your computer?
If the printer is directly attached to your computer, click Local printer. If it is attached to another computer, or directly to the network, click Network printer.
Local printer
Automatically detect and install my Plug and Play printer
Network printer
< Back
Next >
Cancel

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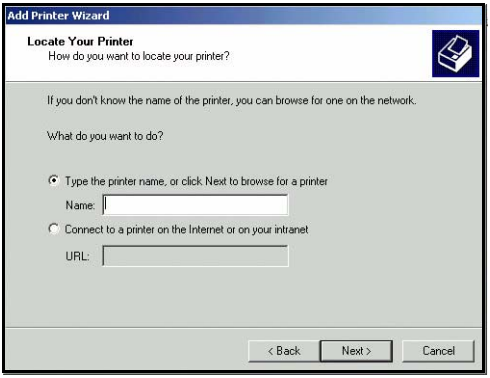
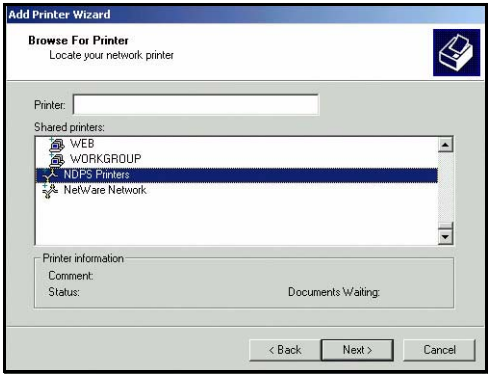
4 Select **Next** to browse your network.

Browse for Printer window appears.

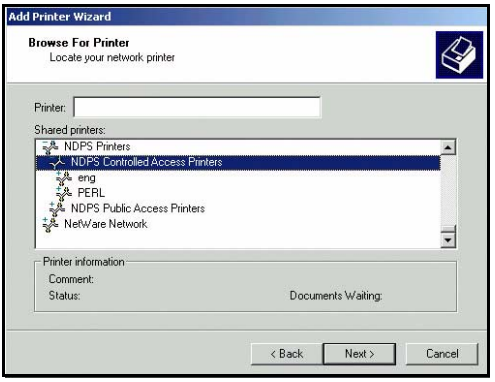

Add Printer Wizard
Locate Your Printer
How do you want to locate your printer?
If you don't know the name of the printer, you can browse for one on the network.
What do you want to do?
Type the printer name, or click Next to browse for a printer
Name:
Connect to a printer on the Internet or on your intranet
URL:
< Back
Next >
Cancel

5 Double-click **NDPS Printers**.



6 Double-click **NDPS Controlled Access Printers**.

7 Locate and double-click the printer you want to add.



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8 When prompted to make this the default printer, select **Yes** or **No**.

NDPS Printer Setup using NetWare Print Manager

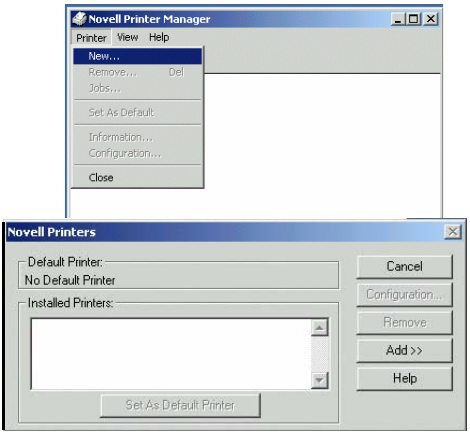
1 Select NWPS32 from the Public\Win32 directory.

Novell Printer Manager window appears.

2 Choose **New** from the Printer menu.

Novell Printers window appears.

3 Select **Add**.



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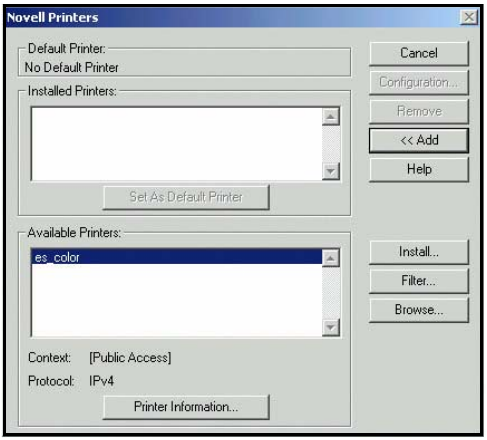
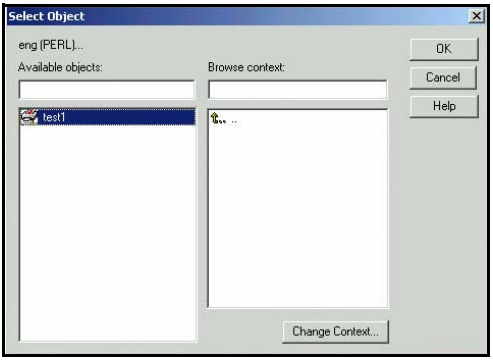
4 Select **Browse** to look for printers.



5 Select the printer to be added.

6 Select **OK**.



Using KONICA MINOLTA NDPS Snap-in Controls

The KONICA MINOLTA NDPS components have been designed to take advantage of the configuration capabilities and information available from KONICA MINOLTA printers.

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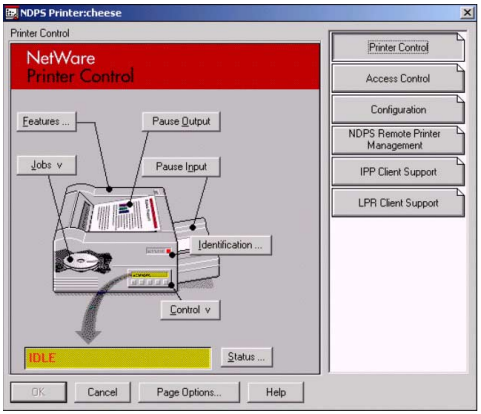
Accessing the Controls

The Printer Control dialog automatically opens during the installation of the KONICA MINOLTA NDPS components. Following the installation, you can access these controls using NWAdmin.

1 Open NWAdmin, and then double-click on an NDPS printer.

If a Novell Printer Control dialog appears, complete the remaining steps to open the KONICA MINOLTA Printer Control dialog. Otherwise, see the next section for a description of the KONICA MINOLTA Printer Control dialog.

2 From the Novell Printer Control dialog, select Identification.

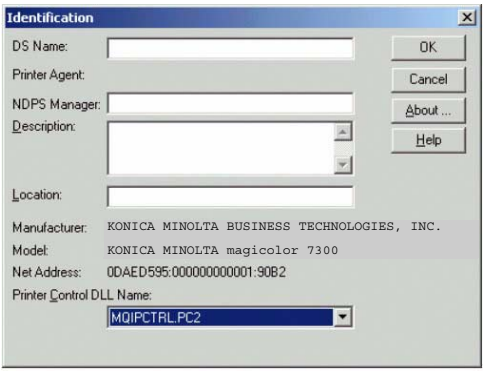


3 Select **MQIPCTRL.PC2** from the Printer Control DLL Name drop-down list.

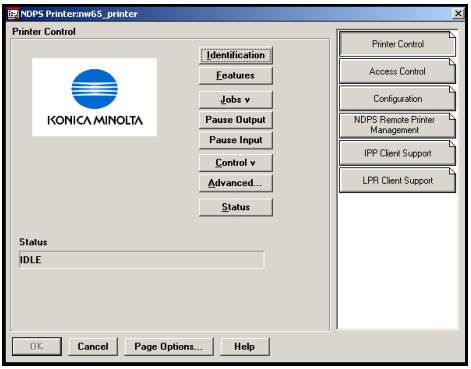
4 Select **OK**, and then close the Novell controls dialog.

5 Repeat step 1.

The KONICA MINOLTA Printer Control dialog opens.



Printer Control Dialog



The KONICA MINOLTA Printer Control dialog gives you access to

- Printer identification, including installed features of each printer
- Printer status
- Print job monitoring
- Spooling configuration
- Print management, including
  - Job holds
  - Notification
  - CrownView and Telnet access

The buttons on the Printer Control dialog give you access to all of the KONICA MINOLTA NDPS component features. For additional information, see the online help available from each dialog.

Identification	Opens the Printer Identification dialog, which displays general information about the printer and NDPS configuration, and allows you to select from available Printer Control DLL Names.
Features	Opens the Features dialog where you can access printer configuration and support service information.
Jobs	Displays a submenu that allows you to open the NDPS Job List dialog and the Spooling Configuration dialog.
Pause Output	Sends a command to the server to pause printer output. No print jobs are printed while the printer output is paused. After selecting Pause Output, the button is replaced with a Resume Output button. Selecting Resume Output removes the pause and allows print jobs to be printed.

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Pause Input	Sends a command to the server to pause input to the printer. No print jobs are sent to the printer while input is paused but the printer completes any jobs it has already received. After selecting Pause Input, the button is replaced with a Resume Input button. Selecting Resume Input removes the pause and allows print jobs to be sent to the printer.
Control	Displays a submenu that allows you to select printer commands such as Reset, Form Feed, and Mount Media, or to open the Printer Defaults dialog.
Advanced…	Opens the KONICA MINOLTA Advanced dialog that allows you to open a Telnet session with the selected printer, and to view printer configuration and status information from the printer's internal web pages via PageScope.
Status	Displays the current status of the selected printer.
OK	Saves changes and closes the Printer Control dialog.
Cancel	Discards changes and closes the Printer Control dialog.
Page Options	Opens Novell's Page Options dialog. See Novell's documentation and online help for additional information.
Help	Displays the help file.
Tabs	See Novell's documentation and online help for information about Printer Control, Access Control, Configuration, NDPS Remote Printer Management, IPP Client Support, and LPR Client Support tabs.

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Color Printing

In this Section...

- Chapter 4.1 — “Color Basics”
  An overview of the color printing fundamentals used by your printer.
- Chapter 4.2 —“Color Profiles, Halftone Screens, and Pantone Tables”
  An introduction to the proper use of color profiles and instructions for installing color profiles for your printer.

Chapter Location

Chapter	Title	Begins on page...
4.1	“Color Basics”	161
4.2	“Color Profiles, Halftone Screens, and Pantone Tables”	167

Color Basics 4.1

Color Management

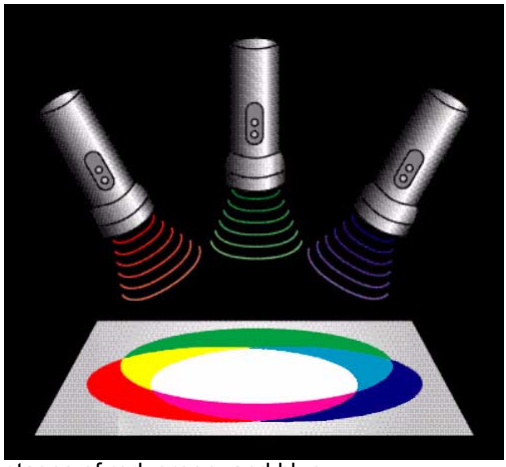
KONICA MINOLTA technology automatically optimizes color output to produce professional quality, colorized documents without the use of sophisticated manual optimization techniques.This chapter starts with a brief introduction about color in general, and how your color laser printer processes color.

Color is a visual perception involving:

- A light source.
- An object that absorbs, reflects, or transmits the light of the light source.
- A detector, which receives and interprets the reflected light from the object.

A distinction must be made between light radiated by a source and light reflected from an object. Although closely related, they represent two different fundamental principles.

Additive Colors



Science has proved that any color can be produced with three colors: red, green, and blue (the illustration demonstrates this with the help of three flashlights). These are called the primary additive colors.

By mixing these colors in different combinations at various intensities, all visible colors can be simulated. Light sources radiate light of various percentages of red, green, and blue.

White light is a mix of 100% red, 100% green, and 100% blue.

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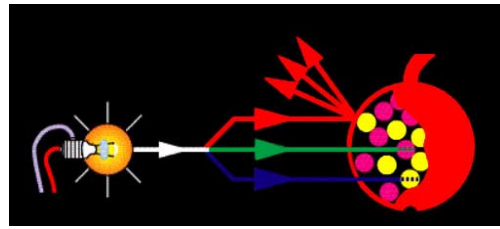
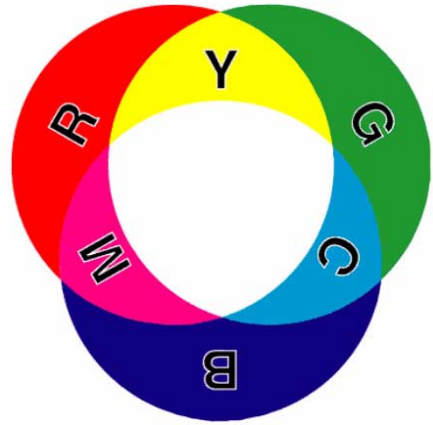
Subtractive Colors



If we direct white light onto an object, such as a red apple, the white light seems to be modified in such a way that only the red part is reflected to our eyes. This means that the apple must have absorbed the green and blue portions of the white light. This is why we say that the apple looks red. Further analysis shows that the object may be considered as having certain pigments responsible for the absorption. These pigments are cyan, magenta, and yellow (CMY) in a particular ratio. These are called the primary subtractive colors (subtracting or absorbing portions of red, green, and blue from white light).

The relationship between additive colors and subtractive colors may be explained by using the result obtained with the flashlight experiment on the previous page. Notice that for light sources (= light-emitting objects) the following applies:

- Red light mixed with green light produces yellow light
- Green light mixed with blue light produces cyan light
- Blue light mixed with red light produces magenta light



The opposite colors on this “wheel” are complementary, which means that for light-reflecting objects, the following applies:

- Red light is absorbed by cyan pigments
- Green light is absorbed by magenta pigments
- Blue light is absorbed by yellow pigments

In the case of our red apple, the pigments responsible for the absorption must be magenta (absorbing the green light) and yellow (absorbing the blue light), while the red light is not absorbed and is reflected.

Mixing equal amounts of cyan, magenta, and yellow pigments produce black pigment (because all the red, green, and blue portions of white light are absorbed). Black, therefore, is the absence of color.

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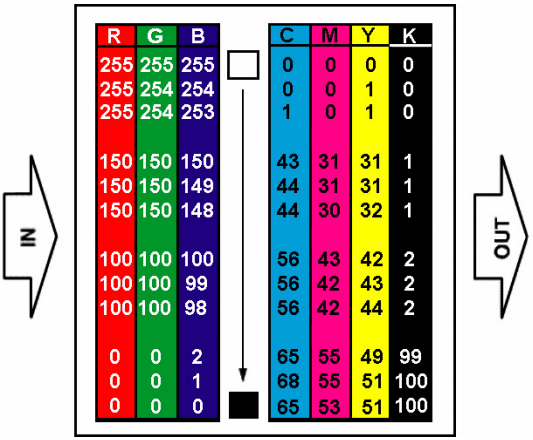
A color printer uses the subtractive principle, which means that when we look at a color printout, the pigments in the toners absorb portions of the white light reflected from the white substrate. A color laser printer typically ships with four toner cartridges: cyan, magenta, yellow and black. Mixing equal amounts of cyan, magenta, and yellow produces black. However, since color toners are never 100% pure, black toner is added to provide pure black. Moreover, black toner provides a more economical way to print in black only, such as for text.

When we talk about printing colors, we actually talk about matching a design created on a device like a monitor, using the additive principle and printing these colors on a color printer, using the subtractive principle. To print correct colors we need a module capable of *translating* the RGB colors of the monitor into CMY(K) colors used by color laser printers. This translation is device dependent. The illustration shows such a (software) module where certain RGB values (from a monitor) are converted into CMYK values (for a color laser printer).



There are many devices capable of producing colors, like a monitor, a color laser printer, a digital camera, and a scanner. To avoid a multitude of translation modules, we first need to define a standard for colors.

Since color is defined as how the human eye perceives this, we introduce the CIE LAB color model (also called *color space*, the organization of all colors of the visible spectrum in a device-independent model). CIE is an acronym for Commission Internationale d'Eclairage. Based on human perception, the CIE LAB color model is most commonly used.

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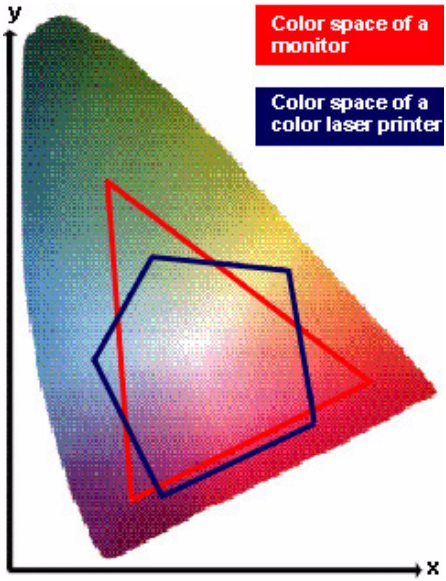
Color Model



A monitor and a color printer have limited color ranges compared to the range of colors visible to the human eye. In the illustration we have identified the range of colors that a monitor is able to produce and the range of colors a color laser printer may produce. This range of colors is called a gamut and is device dependent. To print colors on a color laser printer identical to the design as it looks on the monitor, we first need to translate the profile of the monitor to a standard color space and then translate this to a color laser printer profile. The standard color space most commonly used for these translations is CIE LAB. The CIE LAB color space is based on the human perception of color. Looking closely at the CIE LAB color model, we notice that the gamuts for both devices are different. This means that the monitor may produce certain colors we cannot accurately print on a color laser printer. This is called the out-of-gamut range. This phenomenon is solely caused by the physical properties of such a device. Therefore, the translation module also needs to correct this out-of-gamut range or translate as close as possible.

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4.2 Color Profiles, Halftone Screens, and Pantone Tables

Color Profiles

In the previous chapter, we considered the range of colors any device can reproduce. Colors which a device can reproduce are said to be in the device's gamut; those it can't reproduce are outside the gamut. For example, a monitor can't reproduce all the colors in nature, and a color printer can't reproduce as many colors as a monitor can—so some colors you see on the monitor are outside the printer's gamut.

ICC Profiles

International Color Consortium (ICC) profiles have been developed to resolve the discrepancy between the color gamuts of various devices. Most color device manufacturers comply with the ICC profile specifications.

This means that a device, such as a monitor or digital camera, ships with a specific profile to convert its gamut into the CIE LAB model. A color-reproducing device (such as a color laser printer) should ship with a profile that converts these CIE LAB colors to its reproduction method. Each color producing or reproducing device has its own ICC profile that should be provided by its manufacturer.

There are two ways to incorporate ICC profiles into what is called a Color Management Module (CMM):

1. On the workstation. The disadvantage is that not all operating systems support CMM (for example, Windows 95). Due to this, some software manufacturers implemented CMM within their software (for example, CorelDRAW 10, PageMaker 6.5, and PhotoShop 7). This may lead to confusion and wrong implementations.
2. In the printer. This is the easiest way since all color processes are taken care of inside the printer. The printer converts the color data received. KONICA MINOLTA color printers are equipped with an internal Color Management Module.

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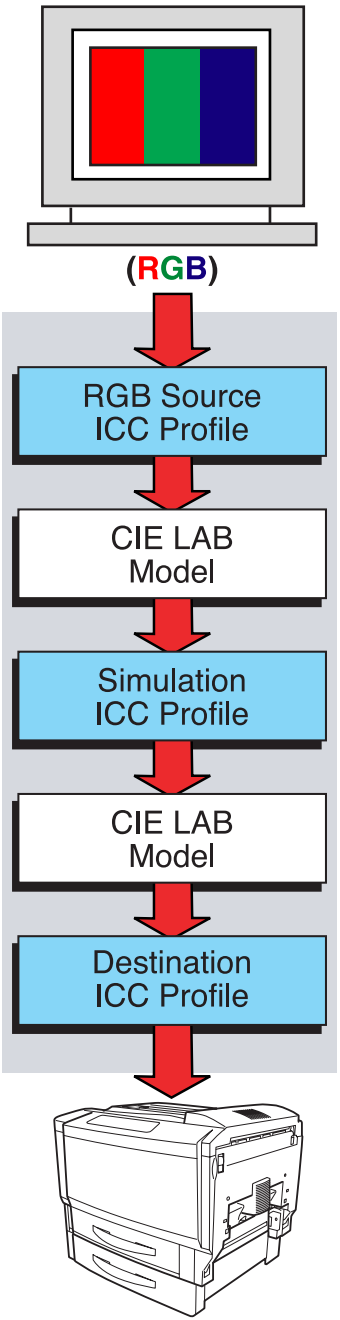
The illustration shows the internal Color Management Module of a KONICA MINOLTA color laser printer. First, the RGB Source ICC profile translates RGB values of the color producing device (in this case a monitor) to the standard CIE LAB color model. Next, those CIE LAB model values are translated into a Simulation profile, if the user chooses to use one. If a Simulation profile is used, the color data is once again translated to the standard CIE LAB color model. Finally, the KONICA MINOLTA Output or Destination profile converts the translated data into CMYK to be sent to the print engine.

Several RGB Source, and Destination ICC profiles are integrated into the Color Management Module of KONICA MINOLTA color laser printers. You may also download other Source, Simulation, and Destination ICC profiles.

A primary function of the internal Color Management Module is to map out-of-gamut colors to the closest in-gamut color.



Downloading and Working with Custom ICC Profiles

Requirements

- *magicolor* 7300 printer
- Internal hard disk
- Download Manager
- ICC profile

KONICA MINOLTA does not provide software or instructions to create new ICC profiles, but does provide the instructions to replace or add to the resident ICC profiles.
The host and simulation profiles are on the Software Utilities *CD-ROM.*

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Overview

Several RGB Source and Destination profiles are integrated into the Color Management Module of the magicolor 7300. Custom profiles can be downloaded for RGB Source, Simulation, and Destination profiles, in addition to what is implemented in the printer.

Creating a Custom Destination Profile

1 Create an ICC output profile that describes the color space of your magicolor 7300 at the desired resolution and halftone screen.

When creating the profile, set the maximum ink limit to 225% in the separations setup of your profiling software. 225% is the maximum ink limit that the fuser of the magicolor 7300 can handle; exceeding this amount can damage the fuser and produce undesirable image quality artifacts.

2 Name the created profile.

*If you are using a **Windows** driver, you may use any naming convention as long as it follows the 8.3 filename/extension standard.*

*If you are using a **Macintosh** driver, name your destination profile custdes1.icc, custdes2.icc, or custdes3.icc.*

3 Download the file to your magicolor 7300's hard disk using the Download Manager procedure.

You can also use the Download Manager procedure to download custom RGB Source and Simulation profiles.

*If you are using a **Windows** driver, you can use any name for these profiles as long as it follows the 8.3 filename/extension standard.*

*If you are using a **Macintosh** driver, you should name the RGB Source profiles custrgb1.icc, custrgb2.icc, or custrgb3.icc, and the Simulation profiles custsim1.icc, custsim2.icc, or custsim3.icc.*

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Host Profiles

Windows and Macintosh

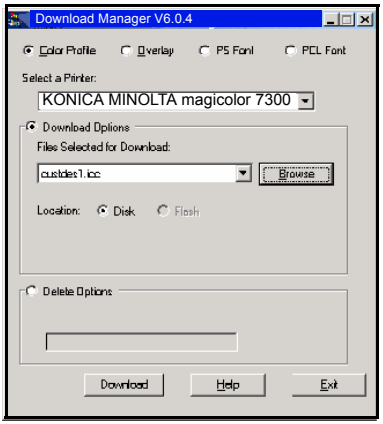
Some applications automatically install host profiles. Others do not. If your application doesn't install profiles automatically, refer to the application documentation to install the profile.

Macintosh

1. Open the folder containing the host profiles.
2. Copy the icc files to one of the following folders, depending on the MacOS/ColorSync version installed:
   - System Folder/Preferences/ColorSync Profiles
   - System Folder/ColorSync Profiles

Using the Download Manager to Download a Profile

1. Open the Download Manager. (See "Download Manager" on page 121.)
2. Select **Color Profile** as the type of file to be downloaded.
3. Specify your magicolor 7300 printer.
4. Under Download Options, locate the profile to be downloaded by choosing the **Browse** button and selecting the correct file.
5. Choose **Download** to send the new profile to the printer.



Working with Downloaded Profiles

1. Verify that the download was successful by using the printer keypad to print a directory list (Print Menu/Directory List). The directory list provides a list of files on the hard disk.

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2 Locate the downloaded profile in the listing of directory/ata0a/ps/color/profiles.

3 To work with the downloaded profiles, use the appropriate instructions below for your operating system:

Windows Users

1 Access the Detailed Color Settings database (Features tab/(Advanced) Color Options/Change Color Settings).

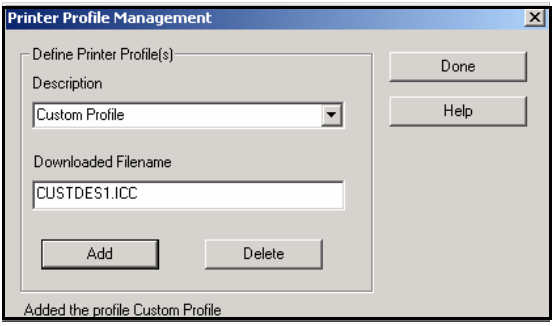
2 Choose the appropriate Manage Profiles button.

3 Select **Manage Profiles** for the appropriate profile (source, simulation, or destination).

4 Type a profile description as you want it to appear in the pull-down menu

5 Type the filename (no path) of the downloaded profile found in the directory list of the hard disk's /ata0a/ps/color/profiles directory).

6 Choose **Add**, then **Done**.



7 In the RGB Source/Custom, Simulation Profile, or Destination Profile drop-down list box, select the profile description you just set in step 3.

The "None" setting for ICC Destination will use the destination profile in the printer's ROM.

Macintosh Users

Use the Custom 1, Custom 2, or Custom 3 setting for RGB Source to use the custrgb1.icc, custrgb2.icc, or custrgb3.icc profile downloaded; for Simulation

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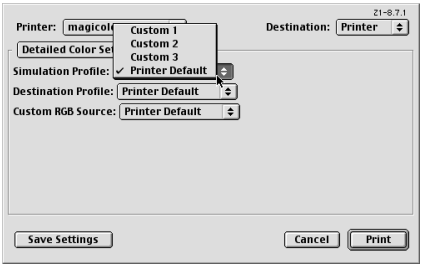
to use the custsim1.icc, custsim2.icc, or custsim3.icc profile downloaded; for Destination to use the custdes1.icc, custdes2.icc, or custdes3.icc profile downloaded.

The "Printer Default" setting for ICC Destination will use the destination profile on the printer's ROM.



Halftone Screens

Continuous tone images have to be converted to dot pattern images on a laser printer. Because of the limited resolving power of the eye, halftones appear as continuous tone images. Halftones are defined by three characteristics—screen frequency (or lines per inch, the number of lines of dots that compose each inch of a halftone screen), screen angle (the angle at which a halftone screen prints), and spot function (the shape of the dots).

Types of Halftones

Three halftones screens are available for this printer: Low, General, and High. The following tables provide details about the specific screen angle, screen frequency, and spot function of each toner color for each halftone screen.

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Resolution—Standard (600x600 dpi)

Halftone Screen	Toner Color	Screen Angle	Screen Frequency	Spot Function
Low	Cyan	68.20	111.42	Line
	Magenta	68.20	111.42	Line
	Yellow	21.80	111.42	Line
	Black	21.80	111.42	Line
General	Cyan	63.43	134.16	Line
	Magenta	63.43	134.16	Line
	Yellow	14.04	145.52	Line
	Black	14.04	145.52	Line
High	Cyan	71.57	189.74	Line
	Magenta	71.57	189.74	Line
	Yellow	18.43	189.74	Line
	Black	18.43	189.74	Line

Resolution—High (9600x600 dpi class)

Halftone Screen	Toner Color	Screen Angle	Screen Frequency	Spot Function
Low	Cyan	63.43	134.16	Euclidian
	Magenta	26.57	134.16	Euclidian
	Yellow	45.00	141.42	Euclidian
	Black	90.00	150.00	Euclidian
General	Cyan	71.57	189.74	Euclidian
	Magenta	26.57	134.16	Euclidian
	Yellow	45.00	141.42	Euclidian
	Black	90.00	150.00	Euclidian
High	Cyan	71.57	189.74	Euclidian
	Magenta	18.43	189.74	Euclidian
	Yellow	90.00	200.00	Euclidian
	Black	45.00	212.13	Euclidian

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Selecting Halftones

You can either allow your Quick Color Configuration selection in the Windows drivers to set the halftone screens automatically, or you can choose separate halftone screens for Characters/Graphics and for Images in the Detailed Color Settings dialog box:

- **Low**—Best for photographs and scanned images
- **General**—Optimized for performance and quality
- **High**—Best for text and line art

Pantone Tables

Pantone Tables are available on our website at www.konicaminolta.net/printer/.

Installing Pantone Tables on Windows

Downloading Pantone Tables from the Internet

1 Use your Internet browser to access www.konicaminolta.net/printer/. Select the appropriate region.

2 From the Need Help or Drivers? list box, select your printer from the drop-down list.

3 In the Drivers, PPDs & Utilities section, choose your PC platform.

4 Locate and download the Pantone file.

The downloaded file contains compressed files that need to be extracted, or "unzipped" prior to use.

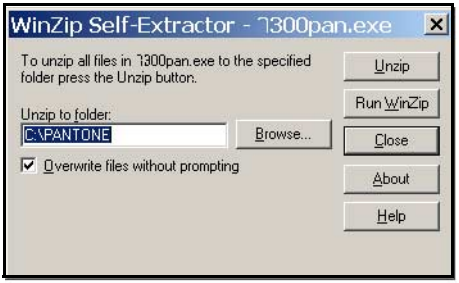
5 Double-click the .exe (or .zip) file to uncompress it.

Follow the on-screen instructions to extract the compressed files.

6 When prompted to Unzip to folder, select a folder location and name the folder (for example, PANTONE).

7 Click **Unzip**.

The Pantone Tables, readme, and other files are extracted.



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8 Select **Close** after the files are extracted.

See the information contained in the extracted files for additional instructions on using Pantone Tables.

Installing Pantone Tables on a Macintosh

Pantone tables are available on our website at www.konicaminolta.net/printer/

Downloading Pantone Tables from the Internet

1 Use your Internet browser to access www.konicaminolta.net/printer/.

2 From the Need Help or Drivers? list box, select your printer from the drop-down list.

3 In the Drivers, PPDs & Utilities section, choose the Macintosh platform.

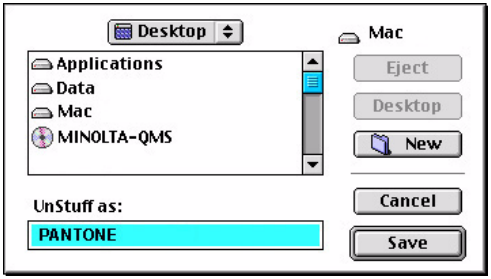
4 Locate and download the Pantone file.

The downloaded file contains compressed files that need to be extracted, or "unstuffed," prior to use.

5 Double-click the .sea file to uncompress it.

Follow the on-screen instructions to extract the compressed files.

6 When prompted to select a folder to UnStuff as:, select a folder location and name the folder (for example, PANTONE).



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7 Select **Save**.

The Pantone tables, readme, and other files are extracted.

8 Select **Quit** after the files are unstuffed.

9 See the information contained in the extracted files for additional instructions on using Pantone tables.

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Features & Configuration

In this Section...

- Chapter 5.1 — “Inside Your Printer”
  Information about what goes on inside of your printer’s operating system and hardware when a print job is received.
- Chapter 5.2 — “Printer Features”
  Describes the key features that your printer supports.
- Chapter 5.3 — “Printer Configuration”
  Contains the methods and details of printer configuration. Features a section about the printer’s internal web page and how you can access it using PageScope Light, a menu map, and instructions for accessing the printer configuration controls included with the KONICA MINOLTA printer driver.
- Chapter 5.4 — “Accounting”
  Describes how to retrieve and interpret accounting information from a printer that has a hard disk installed.

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Chapter Location

Chapter	Title	Begins on page...
5.1	“Inside Your Printer”	181
5.2	“Printer Features”	187
5.3	“Printer Configuration”	197
5.4	“Accounting”	267

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Inside Your Printer 5.1

Inside Your Printer

Your printer's Operating System software resides inside the printer and is referred to as printer firmware. The printer firmware is stored in flash ROM on a Smart Media card.

Updating new printer firmware is performed via one of the printer's interfaces. When the printer firmware is downloaded to the printer, the printer recognizes the nature of the code and replaces the older firmware with the new one that is downloaded. After downloading, the printer restarts with the new printer firmware resident and active.

When your printer is switched on, by default it prints a start page. This page is generated internally by the Operating System. Below is a list of the information pages that may be printed by the Operating System.

Information Pages	**Remark(s)**
Configuration Page	Each time your printer is switched on, it prints a configuration page displaying the configuration settings of the printer. This is particularly important to verify the functionality of your printer and installed options. *You may disable printing a configuration page by means of the control panel.*
Font List	The printer prints a list of installed fonts with a sample of each.
Statistics Page	This page gives statistical information about the usage of the printer and the current status of the consumables.
Registration	This page shows the registration of the four colors of your color printer in respect to each other.
Demo Page	This page displays a color demonstration page.
Menu Map	This page displays the menu map for the control panel.
Directory List	This page displays the directory list.

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Rasterization

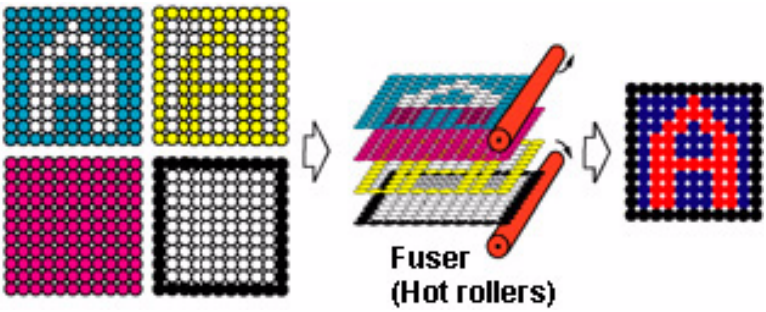
Each time the print engine is ready to print a new page, the print data is translated into a bitmap format that is stored, and then read by the print engine.

What's a bitmap?

A bitmap is a graphic representation of a page. All characters and art representations are printed using tiny dots.

For monochrome printing, the page bitmaps consist of black bitmaps only. Color printers translate the print data into either four separate bitmaps, (one for cyan, one for magenta, one for yellow, and one for black) or a black bitmap only for monochrome output.

The below illustration demonstrates the color rasterization process with



bitmap representations. The rasterizer processes the data into four bitmaps, one for cyan, one for magenta, one for yellow, and one for black. The print engine processes these bitmaps and fuses the four toner layers onto the media to produce a printed output.

Cyan combined with yellow produces green, cyan combined with magenta produces blue, and yellow combined with magenta produces red. Cyan, magenta, and yellow combined produce black. In our example, the black is produced by fusing all four toner colors.

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Printable Areas

The printable area is defined as the media size minus the nonprintable edges around the media. The value of the nonprintable edges is about 0.157" (4 mm) from the edges of the media.

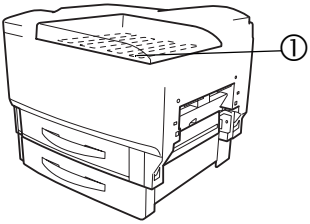
See the magicolor 7300 User's Guide *for more information about printable area(s).*

Printing

The printing segment is the hardware, often referred to as the print engine.

To become familiar with the basic functions of a print engine we demonstrate with a color print engine.

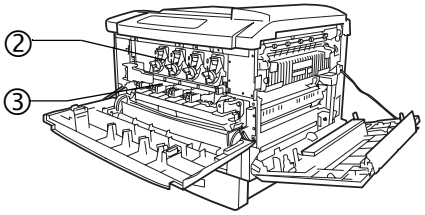
1 **Laser Unit:** The laser unit ① is controlled by the contents of the Frame Buffer (for each color). For each dot color of the Frame Buffer bitmap that is turned on, the laser is switched on and "writes" an electrical dot onto the OPC in the print unit.



An electrical dot is an isolated area on the surface of the OPC. The OPC is initially charged. When the laser beam strikes the surface, that area is electrically neutralized.

2 **Toner:** Each toner cartridge ② transfers its toner to the neutral areas on the print unit by means of electrostatic attraction (the toner carries a negative charge).

3 **Print Unit with OPC:** The laser unit "writes" the dots from one side to the other, while the rotation of the OPC (Organic Photo Conductive) in the print unit ③ is responsible for the vertical movement (lines of dots).



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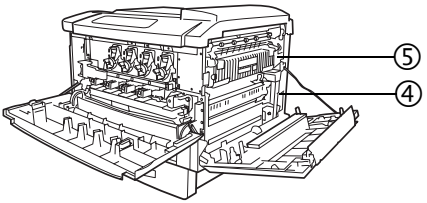
4 **Transfer Belt Unit:** The transfer belt unit ④ collects all four color images. Then the total combined toner image is transferred from the transfer belt unit to the media drawn from the media cassette. The transfer is also obtained by electrostatic attraction.



5 **Fuser Unit:** The fuser unit ⑤ contains pressurized hot rollers. As the media passes the fuser, the toner images are melted and fused onto the media. The printed media is then transported to the output area of the print engine.

The various print engine units are controlled by the printer firmware. To detect the status of these modules, the print engine provides specific sensor signals.

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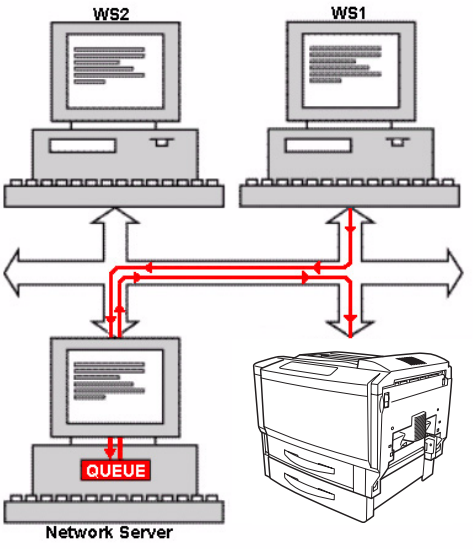
Printer Features 5.2

Serverless Printing

The illustration shows a simplified section of a typical network environment. A workstation (WS1) generates print data from a software application and transmits it via the network to the network server. The network server stores the data on its hard disk (in what is called a print queue). After the data transmission is completed, the network server sends the print job to the printer via the same network.



This method has two major disadvantages:

1 The print data is sent two times across the network, increasing the network traffic.

2 It also takes much longer to print from the time the workstation sends the data until the print job is completely printed.

Not only do you have to wait a relatively long time before the printer starts to process the job, but all other users on the network experience a slower response time as well.

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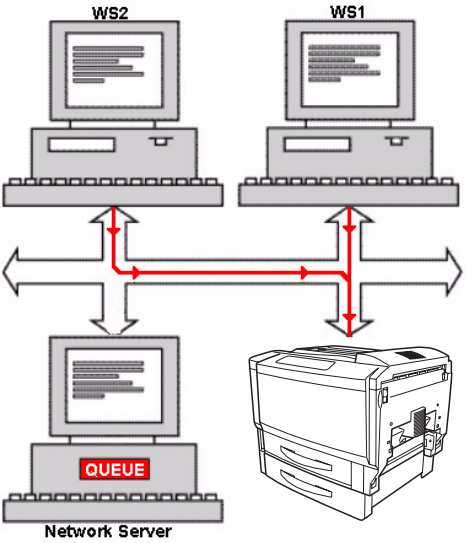
KONICA MINOLTA technology offers a better solution:

Workstations send the print data directly to the printer, omitting the network server routing.

All KONICA MINOLTA printers may still print through a print queue on a network server if you need to use this method.



All KONICA MINOLTA printers behave like network servers when connected to a network, decreasing unnecessary network traffic. This becomes a major benefit when multiple printers are active in the same network. Everyone experiences a much faster throughput of their print jobs.

Automatic Jam Recovery

After you remove any jammed media, printing automatically resumes from the page the printer stopped at when the jam occurred.

For automatic jam recovery to work, it is necessary to leave the printer turned on when you remove the jammed media.

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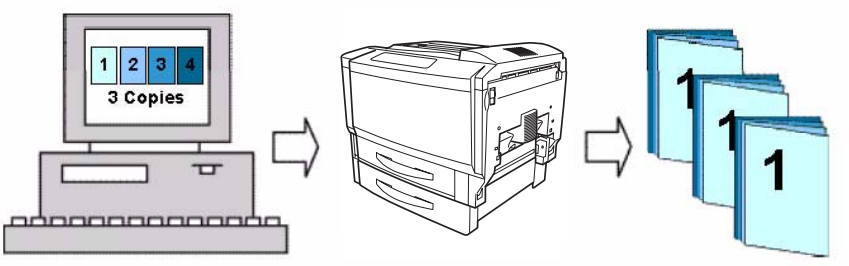
Electronic Document Collation



Note that this 12-page file is nothing more than THREE IDENTICAL 4-page documents.

The Collation feature is supported only on printers with an internal hard disk installed.

When collate is not selected and the copy count is set to 3, the application sends the 4-page file once, with a copy count of 3 embedded in the data stream. Printers without collation features usually print page 1 three times, followed by page 2 three times, page 3 three times, and page 4 three times. You must manually collate the pages afterward to obtain the documents. The example discusses what happens when only three copies are selected. In some cases, many more copies are needed.

KONICA MINOLTA technology offers a better solution:

With your printer, you do not have to select collation in the software application when you need multiple copies of your document. If the driver collate setting is turned on, just enter the number of copies you need in the driver. The print data is sent ***once***, regardless of the number of copies you selected. Your printer prints and ***automatically*** collates the specified amount of documents, with the pages in the correct order for each copy of the document. This feature allows a very efficient way of producing multiple ***documents*** while keeping the network traffic at a minimum and saving you from manually collating the printed pages into documents.

Your printer is shipped with the collate feature switched off. You may switch it on after installing a hard disk on your printer.

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Overlay Printing

Printers with an internal hard disk may utilize overlay printing.

In certain cases a special kind of media, such as preprinted forms or letterhead, is used. When you produce many documents with preprinted forms (for a mailing) you may run out of this media. Or you must first reprint this media, since something may have changed (like a telephone number). Even though you are able to print, your production stops and becomes dependent upon external situations.

KONICA MINOLTA technology offers a better solution:

You may download the entire preprinted form(s) onto the printer's hard disk and use this file as an overlay template.

Overlay printing features three major advantages:

1 You do not need a stock of preprinted forms anymore.

2 You may modify forms whenever needed, without scrapping existing stock.

3 The overlays are printer resident and do not need to be transmitted from a workstation to the printer each time.

Using Overlays

Up to five different overlays may be used for each document. For each overlay, you may select the following criteria from the printer driver:

a ***Disk***—Printer hard disk where the overlay file is located.

b ***File***—The overlay filename.

c ***Placement***—On All Pages, the First Page only, all Even Pages, all Odd Pages or Complex (page number for the first placement, followed by a cycle number, representing how many successive pages later the overlay should be placed again).

You are also able to include a "watermark". A watermark is a text line for special purposes, such as "Confidential" or "Draft." A watermark, however, is generated by the printer driver and is independent from the contents of the document and function of overlay printing.

The overlay may be designed from any available software application. It must be a one-page document that can be printed. However, rather than physically printing it, you must print the overlay to a file and temporarily store it on your PC's hard disk as a PostScript file, for example, ***overlay1.ps***.

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The next step is to transfer this file to the internal hard disk of your printer. You can use the Download Manager application or FTP to transfer the files to the hard disk of the printer.

Overlays are not supported on Macintosh.

Important Note for KONICA MINOLTA Windows 98/Me PostScript Driver Users

If you created the overlay file using the KONICA MINOLTA Windows 98/Me PostScript driver, you must also perform the following step before downloading it to the printer.

Using any text editor, add a PostScript “end” command following the PostScript “grestore” command.

Attention

Do not make this change to overlay files generated by any KONICA MINOLTA driver other than the Windows 98/Me PostScript driver.

After it’s edited, the file layout will appear as follows:

```
gsave
PS data 1
PS data 2
.
.
.
.
.
.
PS data N
grestore
end
```

Troubleshooting Overlays

If an overlay file doesn’t print, it may be because it contains PJL, UEL, or non-device-independent PostScript commands. To fix the overlay, use any text editor to remove the following commands from the overlay file and then download it again to the printer.

In the file to be printed, remove:

1 All PJL commands.

Delete any commands that contain the character sequence “@PJL”.

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2 All UEL commands.

Delete any commands the contain the character sequence "<ESC>%12345X" where <ESC> is the escape character [0x1b, decimal 27] (may be seen in some text editors as a box or a left-pointing arrow).

3 Device-specific commands.

Delete any section of code that starts with "<<" and ends with ">>setpagedevice>". For example, a device-specific command to select the color space may read "<</ProcessColorModel/DeviceCMYK>>setpage device>".

Also delete any section of the code that starts with "featurebegin{" and ends with "}featurecleanup".

Attention

Do not delete any lines that are not surrounded by this pair of terms.

If you are not sure if a command sequence is device-specific, you can check for the sequence in a PPD, refer to the Adobe PostScript Level 2 Technical Language Reference Manual*, or contact KONICA MINOLTA Technical Support.*

Printer-based Accounting

Printers with an internal hard disk may utilize Printer-Based Accounting. With Printer-Based Accounting, individual print job information is saved on the printer's internal hard disk in an accounting file. This information can be retrieved from the printer, filtered according to the individual customer requirements and exported into a spreadsheet program in order to be analyzed. There are over 40 different information fields available.

Printer-Based Accounting is important for System Administrators who need interdepartmental accounting, pay-for-print applications, or workflow management.

There are two types of accounting information captured by your printer:

Job Accounting

As each print job is completed, the information describing the print job is saved in the accounting file. This information allows you to analyze consumable usage, media usage, operator usage, and the history of printer activities.

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Printer Error Accounting

Capturing the information each time the printer experiences an error allows you to analyze the types of errors and the down-time each error causes.

For More Information

See “Printer-based Accounting” on page 268 for details about the Accounting records that are saved in the Accounting file on your printer’s hard disk.

Tray Chaining and Auto Continue

Tray Chaining

You can configure the printer to automatically switch input trays during a print job when the first tray runs out of media. This is called tray chaining. Tray chaining can be enabled from the printer’s control panel (Paper/Input Tray/ Tray Chain menu) and from the Administrator Mode/System tab/User Choice topic/Paper window of PageScope Light. See the following section “Auto Continue” for additional information concerning the use of tray chaining.

Auto Continue

If paper of the size specified for the print job is not loaded in the printer, printing stops and a message appears, instructing that paper of the size specified for that print job be loaded.

If the Auto Continue function is used, printing of the print job can automatically continue using the paper loaded in the printer when paper of the size specified for the print job is not loaded.

If the Auto Continue function is enabled, the page size of the print job is automatically adjusted to fit the size of paper in the printer so it can be printed on the size and type of paper loaded in the printer.

The Auto Continue function can be enable or disabled from the printer’s control panel (Sys Default menu/Auto Continue) or from the PageScope Light window (Administrator mode/System tab/User Choice/System Default).

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If a tray is set to paper of the same size as the print job, even when the Auto Continue function is enabled, instead of automatically continuing printing, a message appears, instructing that paper be loaded into that tray.
In addition, if paper of a different type and size is loaded into Tray 2 when the first tray runs out of paper during printing, printing cannot be automatically continued.
If this occurs, load paper according to the message that appears in the printer's control panel.

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5.3 Printer Configuration

Configuring your Printer

There are several ways to configure how your printer works.

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Configuring your Printer via PageScope Light

This chapter describes how to configure printer settings via the printer's internal web page manager (PageScope Light), and provides a menu map of the printer's control panel.

To help you locate information about configuration items or parameters for your printer, hyperlinks have been added to these pages to allow you to quickly jump from parameter descriptions in the PageScope Light section to the corresponding page in the menu map section (and vice versa). Parameter descriptions accompanied with the menu button icon (shown at right) have a corresponding menu item that can also be used for setting the default value. Just click on the menu icon to jump to the menu page. When viewing the menu map pages, clicking on the menu item leads you to the description in the PageScope Light section if there's an equivalent parameter.

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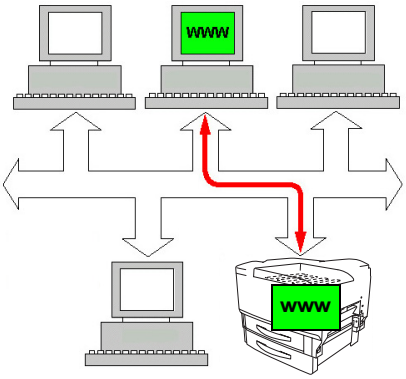
Using PageScope Light



Your printer has a built-in web page manager (PageScope Light) that you can access using your web browser. With PageScope Light, you can (with the proper password) change the configuration of the printer without leaving your workstation.

Inside your printer resides an HTTP (Hyper-Text Transfer Protocol) based web page that can be accessed from most common web browser software, such as Netscape Navigator and Microsoft Explorer. This web page gives you access to the most frequently used printer configurations and gives you instant access to printer status. Anyone on your company Intranet can access the printer using their web browser software.

You do not need an Internet connection to view your printer web pages. Only the web browser software application is needed on your workstation.

In addition, with the proper password, you can change the configuration of the printer without leaving your PC.

Users who are not given passwords by the administrator can still view some configuration settings and options via the User Mode, but are not able to save or apply changes.

To use PageScope Light, you need to have the following installed on your workstation:

- An Internet browser.
- TCP/IP communication software. This is needed since Internet browsers use this communication protocol. Because the communication for PageScope Light is a direct one (from your workstation to the printer), the TCP/IP communication software may be independently installed from the communication protocol of your network environment.

You cannot access PageScope Light using a local (parallel or USB) connection.

Some of the menus shown on the following pages may vary per printer model and/or options installed.

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System Requirements

The following items are required to use this utility.

Computer Software

Operating System	Web Browser
Windows 95/98/NT 4.0	Internet Explorer 4.0 or later Netscape Navigator 4.0 or later
Windows 2000	Internet Explorer 5.0 or later Netscape Navigator 4.0 or later
Windows Me	Internet Explorer 5.5 or later Netscape Navigator 4.0 or later
Windows XP	Internet Explorer 6.0 or later Netscape Navigator 4.0 or later
Macintosh OS 9 or later	Internet Explorer 4.5 or later Netscape Navigator 4.0 or later
Linux	Netscape Navigator 4.0 or later

magicolor 7300—Network

- 10BaseT/100BaseTX Ethernet
- TCP/IP protocol

Setting Up the Printer Web Page

Setting up the printer web page to run on your Intranet involves two basic steps:

1 Determining the name and address of your printer

2 Setting up the “no proxy” preferences in your browser software

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Determining the Printer Name

The printer web page can be accessed only through the assigned name of the printer or the printer's IP address. The IP address can be found on the Start Page of your printer. The name for the printer comes from the IP host table on the computer system and is usually assigned by the system administrator, for example, magicolor 7300.

Name or Number?

It may be more convenient for you to use a name rather than the IP address, however, the IP address of your printer is a unique number and may be preferred if you have many printers active on your network.

Setting Up Your Browser Software

Since your printer resides on your Intranet, and is not accessible beyond the firewall of your network, you must set up the proper "preferences" in your browser software.

1 Start the web browser.

2 Your printer name or IP address must be added to the "no proxy" list in the preferences dialog box of the browser.

You need to do this procedure only once.

The sample screens below may be different from yours depending on software versions and operating systems in use.

Our examples represent the IP address of the printer with: xxx.xx.xxx.xxx. Always enter your printer's IP address without leading zeros. For example, 131.011.010.001 should be entered as 131.11.10.1.

In the Address Bar, enter the IP address of the printer as shown below.

http://<IP address of the printer>/

Example: When the IP address of the printer is 192.168.0.10:

http://192.168.0.10/

This will cause a PageScope Light screen to appear.

Operation

PageScope Light operation is identical to that for Internet web pages. Clicking a hot link jumps to the link destination, and the [Back] and [Forward] buttons scroll through pages backwards and forward.

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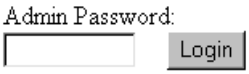
If an error message appears due to an incorrect setting, click the [Back] button to return to the previous page, and then try specifying the setting again.

In addition, if the KONICA MINOLTA PageScope Light logo in the top-left corner of the page is clicked, the KONICA MINOLTA web site opens up in the browser.

Logging in to the Administrator Mode

By logging into PageScope Light in the Administrator Mode, you can configure or confirm the printer system.

1 Enter the administrator password into the “Admin Password” box at the upper left corner of the screen.



For the password, use the same password as the administrator password for the printer. For details, consult your printer administrator. The default password is 0000.

2 Click [Login] to log in using the Administrator Mode.

3 To log out, click [Logout].

Netscape Navigator (Version 6.2)

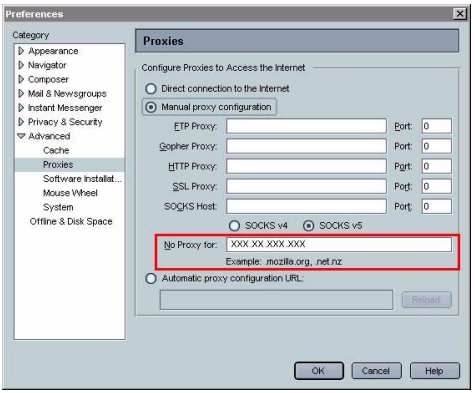
1 Start your web browser.

2 Access the Edit menu, and choose Preferences.

3 Select the Advanced/ Proxies directory from the left pane of the dialog box.

4 Select the Manual Proxy Configuration radio button.

5 In the No Proxy For: text box, type a comma after the last entry, and then type the printer name or the IP address of your printer.



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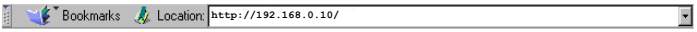
6 Choose OK until you return to the main browser window.

7 Enter the printer name or IP address in the Go to: URL address box to access the printer home page.



Internet Explorer (Version 6.0)

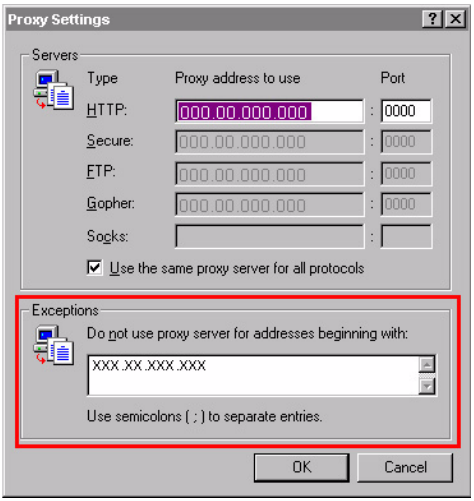
1 Start your web browser.

2 Access the Tools menu and choose Internet Options.

3 Select the Connection tab on the dialog box.

4 Select the LAN Settings button to display the Local Area Network (LAN) Settings dialog box.

5 Select Advanced to open the Proxy Settings dialog.



6 In the Exceptions text box, type a comma after the last entry and then type the IP address of your printer.

7 Select OK until you return to the main browser window

8 Enter the IP address in the URL address box to access the printer home page.

Navigating PageScope Light

The illustration below identifies the navigation and configuration areas of the windows that you see in PageScope Light windows.

At the top of all PageScope Light windows, the current status of the printer is displayed.

The icon displays the type of status being displayed.

Icon	Status	Description	Examples
	Ready	The printer is online and either ready to print or printing.	READY WARMING UP PROCESSING
	Attention	The printer needs attention, but printing continues.	MEDIA EMPTY TONER LOW CYAN

	Fixable Error	The printer needs attention before printing can resume.	PRINT UNIT END
			  REPLACE BLACK
			P-UNIT LOW YELLOW
			TONER EMPTY
			  REPLACE YELLOW
			MEDIA JAM
			  TRAY2
			LOAD LETTER IN MANUAL
			  FEED TRAY

	Fatal Error	The printer must be rebooted. If that doesn't fix the error, service is required.	SERVICE CALL *N X* *"N" indicates the message ID; "X" indicates the message displayed.*

Selecting the main topic displays the configuration area for the printer options (parameters) associated with your selections. To change a current setting, click on the current setting and then select from the available choices. or enter the new value.

Many configuration items do not allow typed entries and must be changed by selecting a value from a drop-down list that appears when you click on the current setting.

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Windows Buttons

Windows may contain buttons to accomplish certain tasks:

Button	Purpose
Apply	Applies all parameter settings on the current web page.
Back	Returns to your last action.
Browse	Allows you to browse for the needed file.
Clear	Clears all parameter settings on the current web page.
Delete	Deletes the selected print job.
Detail	Provides more detail on the selected print job.
Display	Displays the specified records.
Format	Formats the hard disk.
Get	Gets the specified records.
Login	When the correct password is input, allows you to log into the Administrator mode.
Logout	When in the Administrator mode, allows you to log out of the Administrator mode and return to the User mode.
OK	Allows you to accept the current settings.
Print	Prints the selected page(s).
Save	Saves the current values.
Reset	Sets the parameter settings back to the next to last settings.
Restore	Changes the parameter settings back to the original settings after changes are made.

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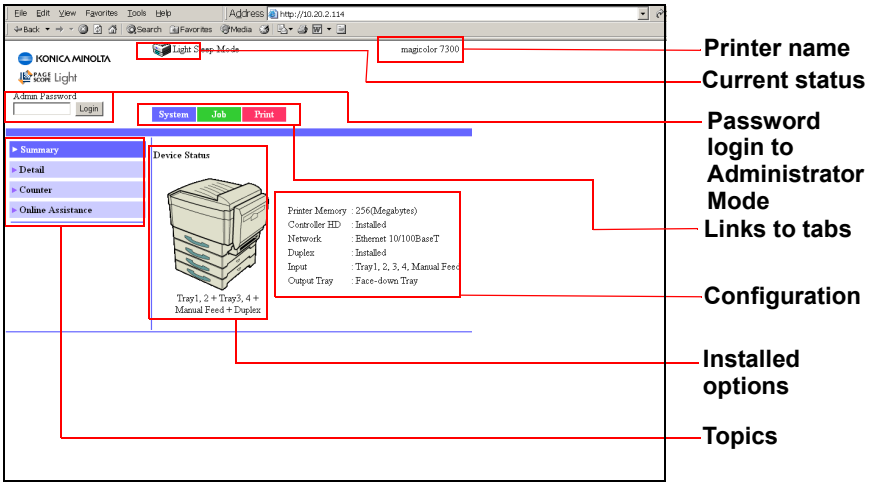
User Mode

In the User Mode, you can view some configuration settings and options and the printer's current status, but you are not able to change them (except for input tray, collate, and copies on the Print/Default Settings/General Settings page).



Item	Description
Printer Name	Shows the name assigned to your printer.
Current Status	Displays the current status of the printer—just as it's displayed on the printer's control panel message window. *The status display allows you to remotely identify possible printer problems, such as out of paper and out of toner.*
Password Login to Administrator Mode	Allows you to log on to the Administrator Mode, where you can change configuration settings. *Users who are not given passwords by the administrator can still view some configuration settings and options via the User Mode, but are not able to change them.*
Links to Tabs	Provides links to other PageScope Light web page windows, such as the Print tab.
Configuration	Lists basic information about your printer.

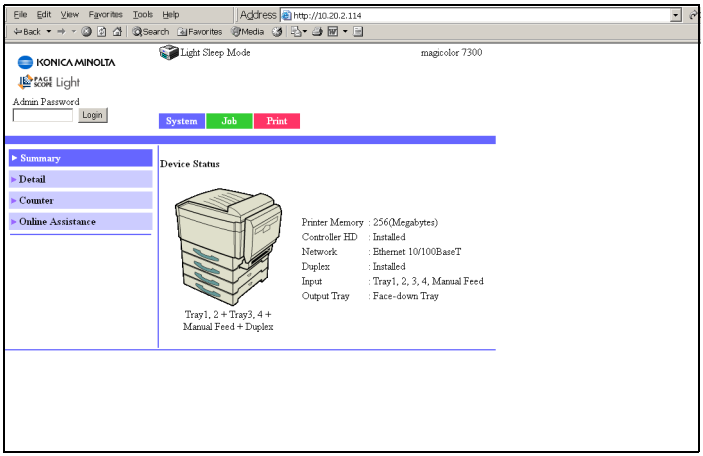
Item	Description
Installed Options	Identifies the type of printer that you are browsing and identifies the installed options.
Topics	Allows you to view other PageScope links.

The User Mode consists of three tabs:

Tab	Purpose	Page
System	Lists basic information about the printer.	207
Job	Lists information about current and completed print jobs.	209
Print	Allows you to view default printer settings, and font information, print special pages, and send files directly to the printer.	210

User Mode—System Tab

The System tab is the starting point for all access to the printer's internal web pages. On this page you find printer status and current configuration settings, printer identification, and links to other User Mode web pages.



Summary

The Summary topic displays the general printer settings.

All of the information displayed on the Summary topic is read-only.

Detail

The Detail topic displays data for the trays, hard disk, interfaces, consumables usage, and media sources.

Item	Description
Input Tray	Lists the media sources, sizes, types, orientation, capacity, and paper status for each input tray currently configured for each source.
Output Tray	Lists the capacity and status of the face-down output tray.
Hard Disk	Lists the capacity, amount used, and amount remaining of the hard disk. *The hard disk appears only if it is installed.*
Interface Info	Lists information about the local and network interfaces.
Consumables	Status bars graphically represent the remaining life of each consumable item using a percentage of total life based on plane or face counts. *Page counts are based on 5% toner coverage for each page. If your pages average more than 5% coverage, the remaining life is less than the page count displayed.*

Counter

The Counter topic displays page counts.

Item	Description
Total Page Counters	Lists total and total normalized page counts for black and white and color pages.
Paper Counter	Lists paper size and media type counts.
Total Error Counters	Lists jams and other error counts.

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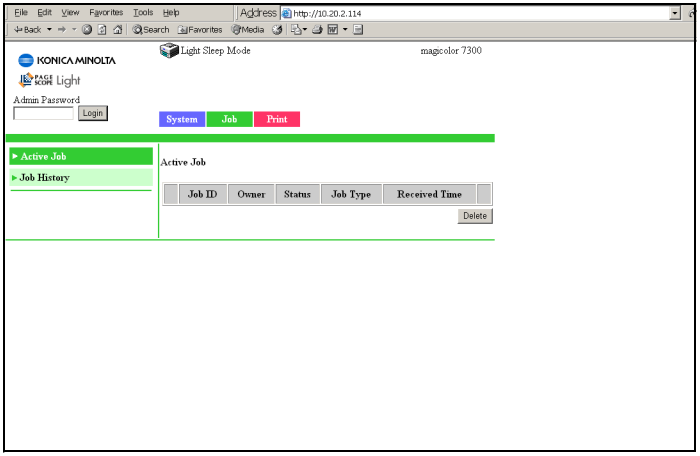
Item	Description
Power-on Counter	Lists page, error, power-on time (<100 seconds from a cold boot, <30 seconds from a warm boot), and configuration change counts.

Online Assistance

The Online Assistance topic provides contact, help, and supplies ordering information.

User Mode—Job Tab



Active Job

Active Job lists the job ID, owner, status, job type, and received time of current print jobs.

Job History

Job History lists the job ID, owner, title, faces printed, status, finish time, job type, and number of sheets of completed print jobs.

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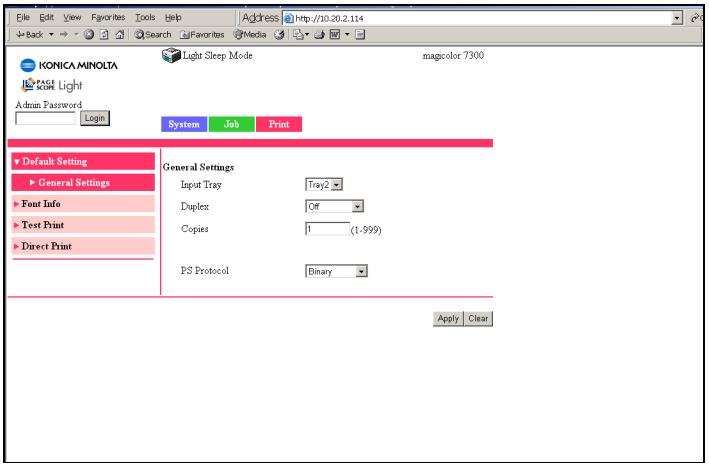

Default Setting

Item	Description
Default Setting	
General Settings	Displays the current input tray, duplex option, number of copies set on the printer, and PS (PostScript) Protocol setting.

Font Info

Item	Description
Font Info	
PostScript Fonts	Displays the PostScript fonts currently installed, font type (for example, Adobe Type 1), and location of the font on the printer.

Test Print

Test Print allows you to print a statistics page that indicates the condition of consumables, a configuration page, PostScript font list pages, a registration page, a menu map of the control panel menus available, and a directory list. It display the product name and your printer name.

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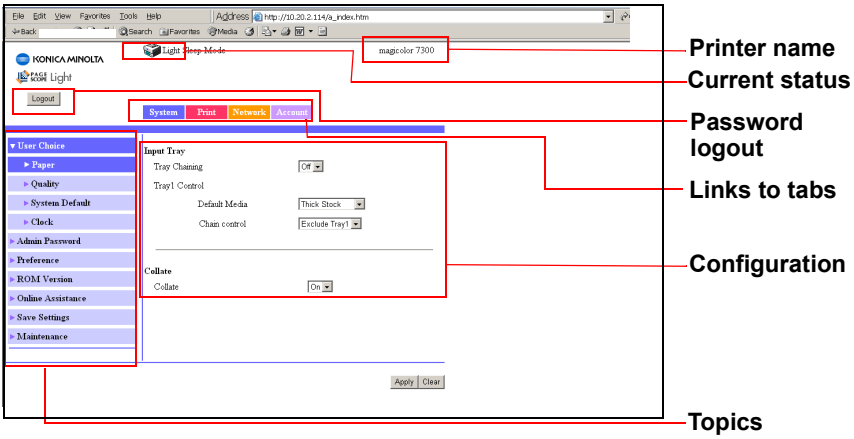
Direct Print

Direct Print allows you to locate and send a PostScript or PDF file to the printer.

Administrator Mode



Item	Description
Printer Name	Shows the name assigned to your printer.
Current Status	Displays the current status of the printer—just as it's displayed on the printer's control panel message window. *The status display allows you to remotely identify possible printer problems, such as out of paper and out of toner.*
Logout from Administrator Mode	Logs out of the Administrator Mode and returns to the User Mode.
Links to Tabs	Provides links to other PageScope Light web page windows, such as the Print tab.
Configuration	Lists configuration options for your printer.
Topics	Allows you to view other PageScope links.

The Administrator Mode consists of four tabs:

Tab	Purpose	Page
System	Is the starting point for all access to the printer's internal PageScope web pages.	212
Print	Allows you to view such items as the local interface (I/F) I/O Timeout and IPP settings.	228
Network	Allows you to configure the printer's network settings.	230
Account	Allows you to configure and use the printer's accounting and email notification features.	238

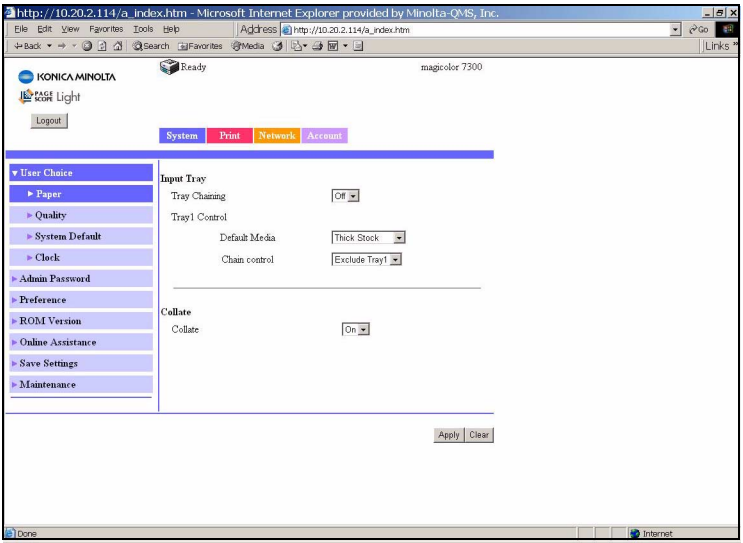
Administrator Mode—System Tab

The System tab is also the starting point for all access to the printer's internal web pages. On this page you can configure printer settings.

Click on the *to view descriptions of equivalent printer menus.*

User Choice

Paper



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Item	Description
Input Tray	
Tray Chaining	Choices: On Off Default: **On** Configuration Menu Equivalent: Paper/Input Tray/ Tray Chain
Tray1 Control	
Default Media	Choices: Plain paper Transparency Thick stock Labels Envelopes Postcard Side1 Postcard Side2 Default: **Plain paper** Configuration Menu Equivalent: Paper/Input Tray/ Tray1 Control/Default Media
Chain Control	Choices: Include Tray1 Exclude Tray 1 Default: **Include Tray1** Configuration Menu Equivalent: Paper/Input Tray/ Tray1 Control/Chain Control
Collate	
Collate	Choices: On Off Default: **On** *Only displays if a hard disk is attached.* Configuration Menu Equivalent: Paper/Collate

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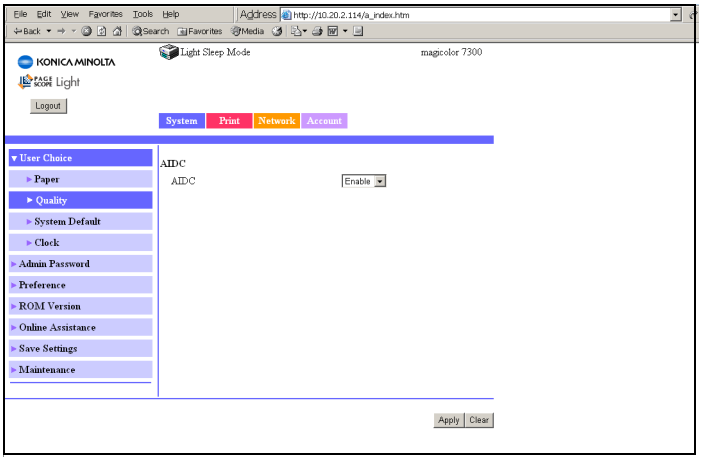
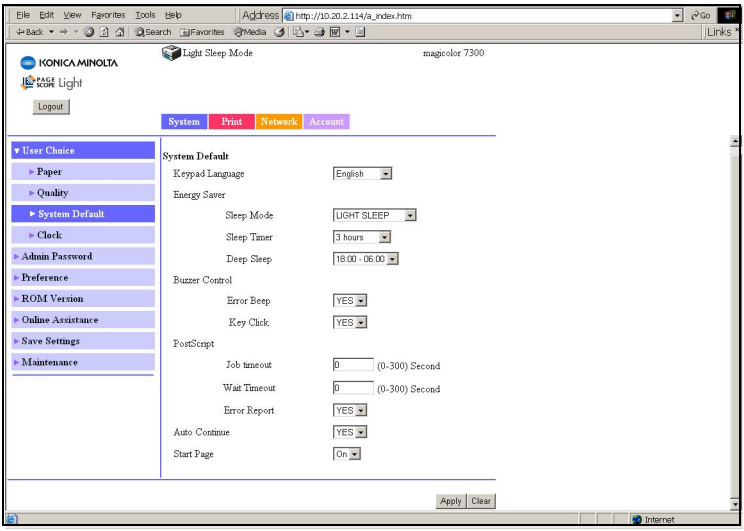
Quality



Item	Description
AIDC 	Enables/disables Automatic Image Density Control (AIDC) calibration. Choices: Enable Disable Default: **Enable** Configuration Menu Equivalent: Quality/AIDC

System Default

The Administrator can set parameters for the system defaults.



Item	Description
Keypad Language 	Specifies the language used to display menus and messages in the printer's message window. Choices: English French German Italian Portuguese Spanish Czech Japanese Default: **English** Configuration Menu Equivalent: Sys Default/ Language

Item	Description
Energy Saver 	If no print jobs are sent to the printer for the time specified by this parameter, the printer's Energy Saver feature is activated. **Sleep Mode** Choices: Deep Sleep Light Sleep Standby Mode Off Default: **Light Sleep** **Sleep Timer** Choices: 15 Minutes 30 Minutes 1 Hour 3 Hours Default: **30 Minutes** **Deep Sleep** Choices: 00:00-24:00 18:00-06:00 20:00-06:00 22:00-06:00 24:00-06:00 Default: **00:00-24:00*** Configuration Menu Equivalent: Sys Default/ Energy Saver
Notes:	*Default time zone: 100V — Japan Standard Time 110V — Greenwich Mean Time 220V — Central European Time

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Item	Description
Buzzer Control 	**Error Beep** Choices: Yes No Default: **Yes** **Key Click** Choices: Yes No Default: **Yes** Configuration Menu Equivalent: Sys Default/Buzzer Control
PostScript 	**Job Timeout** Range: 0–300 Seconds Default: **0 Seconds** **Wait Timeout** Range: 0–300 Seconds Default: **0 Seconds** **Error Report** Choices: Yes No Default: **Yes** Configuration Menu Equivalent: Sys Default/ PostScript

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Item	Description
Auto Continue 	Configures the printer for automatically continuing printing after the selected media tray is empty and the additional media tray has a different media size or media type installed. Choices: No—disables the auto continue feature. When the first tray empties, printing will stop until you've identified the media to be used to complete the print job. Yes—enables the auto continue feature. When the first tray empties, the printer will automatically adjust for the media installed in the second tray and continue printing. Default: **Yes** *Tray Chain must be On to enable the Auto Continue feature.* Configuration Menu Equivalent: Sys Default/ Autocontinue
Start Page 	Prints a start page, providing printer configuration information, when the printer is turned on. Choices: On Off Default: **On** Configuration Menu Equivalent: Sys Default/Start Page

Clock

Item	Description
Date 	Allows you to set the date (y = year, m = month, d = day). Default: *Present Date* Configuration Menu Equivalent: Sys Default/Clock

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Item	Description
Time 	Allows you to set the time (h = hour, m = minute). Default: *Present Time* Configuration Menu Equivalent: Sys Default/Clock
Time Zone*	Allows you to identify your time zone (0 = midnight, Greenwich Mean Time). Hours Range: +12 to -12 Default: **0** Minutes Choices: 0 30 Default: **0**
Notes:	*Default time zone: 100V — Japan Standard Time 110V — Greenwich Mean Time 220V — Central European Time

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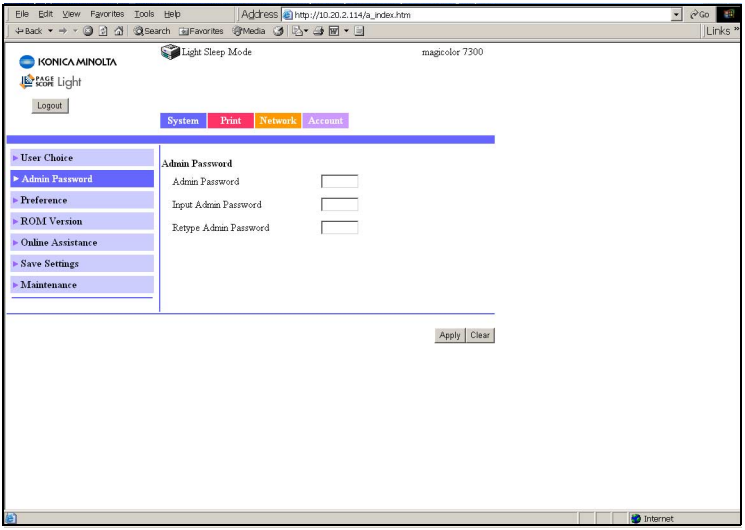
Admin Password

This is the Admin Password for PageScope Light, and is different than the password set on the control panel for the printer.



Item	Description
Admin Password	Identifies the Admin Password. Range: Up to 4 characters, 0000–9999, AAAA–ZZZZ Default: **0000**
Input Admin Password 	Changes the Admin Password set by the Administrator. Range: Up to 4 characters, 0000–9999, AAAA–ZZZZ Default: *Blank* Configuration Menu Equivalent: Sys Default/ Change Password

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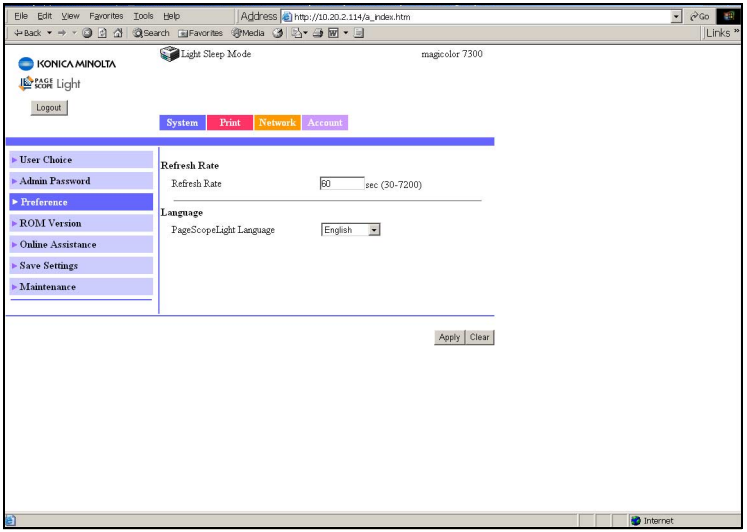
Item	Description
Retype Admin Password	Confirms the Admin Password set by the Administrator. This must match the inputted Admin Password. Range: Up to 4 characters, 0000–9999, AAAA–ZZZZ Default: *Blank*

Preference



Item	Description
Refresh Rate	Sets the refresh rate of PageScope Light in seconds. Range: 30–7200 Default: **60**

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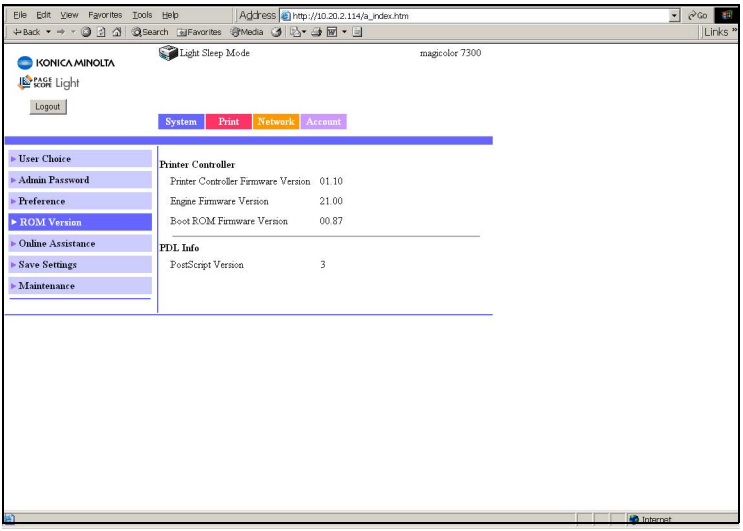
Item	Description
Language/ PageScope Light Language	Sets the language used to display PageScope Light windows. Choices: English German French Italian Spanish Czech Portuguese Japanese Chinese Default: **English**

ROM Version



Item	Description
Printer Controller	
Printer Controller F/W Version	Displays the current Printer Controller Firmware version. Example: 00.73

Item	Description
Engine F/W Version	Displays the current Engine Firmware version. Example: 16.00
Boot ROM F/W Version	Displays the current Boot ROM Firmware version. Example: 00.85
PDL Info	
PostScript Version	Displays the current PostScript version. Example: 3

Online Assistance

Allows you to list or configure contact and product help information.

Item	Description
Contact	Specifies the name of the person or organization that provides assistance with the printer. Range: Up to 63 characters Default: **KONICA MINOLTA Customer Support**
Contact Info	Specifies specific contact information. Range: Up to 127 characters Default: *Blank*
Product Help URL	Sets the help web site address for printer assistance. Range: Up to 127 characters Default: www.konicaminolta.net/printer/support/current_printers/mc2350_sup.htm
KONICA MINOLTA Corporate URL	Sets the KONICA MINOLTA corporate web site address. Range: Up to 127 characters Default: www.konicaminolta.net/printer/

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Item	Description
Supplies and Accessories	Specifies (or sets) the name of the person or organization that provides assistance with supplies and accessories. Range: Up to 127 characters Default: *Blank*

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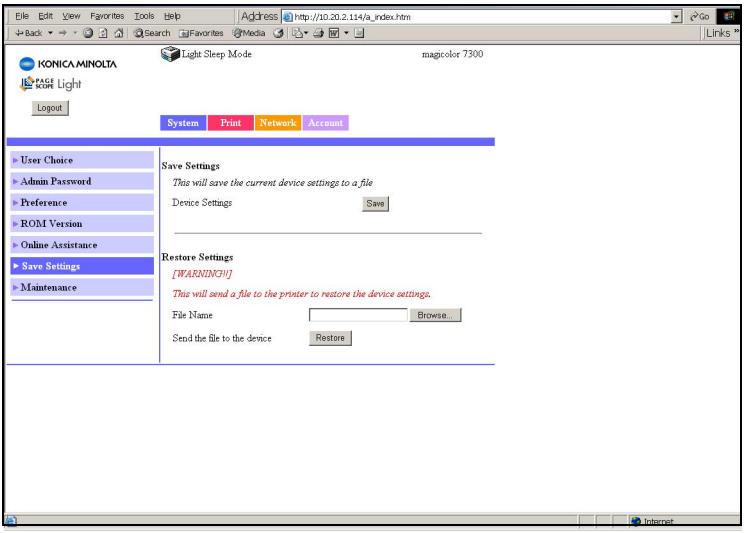
Save Settings



Save Settings

Device Settings allows you to save the current device settings to a file.

Restore Settings

File Name allows you to browse for a file.

Send the File to the Device allows you to send a file to the printer to set the device settings according to the values in the file.

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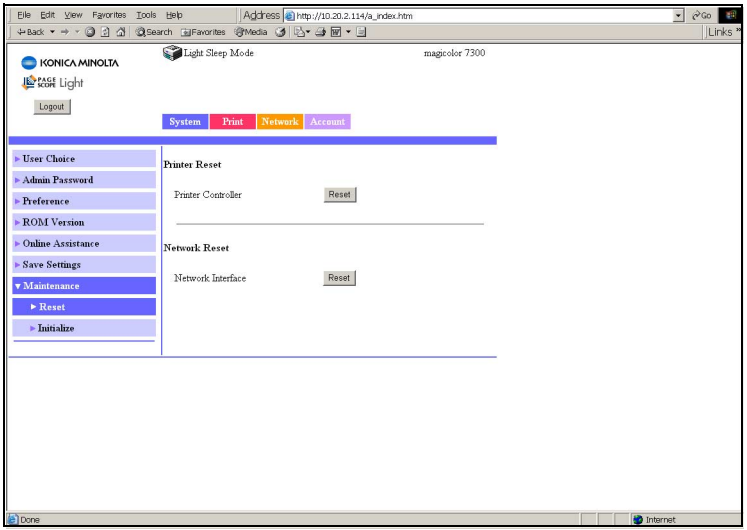
Maintenance



Reset

Item	Description
Printer Reset/Printer Controller	Allows you to reset the printer controller. Configuration Menu Equivalent: Sys Default/ Restore Default/Restore Printer
Network Reset/ Network Interface	Allows you to reset the printer's network interface. Configuration Menu Equivalent: Sys Default/ Restore Default/Restore Network

Initialize

Item	Description
Hard Disk Format/ Format Hard Disk	Reformats the printer's hard disk. Data on the hard disk cannot be restored once the hard disk is formatted. Choices: User Area Only All Default: **User Area Only** *Not displayed if no hard drive installed.* Configuration Menu Equivalent: Sys Default/HDD Format
Restore Factory Defaults/Printer Controller Firmware	Restores the printer controller to factory default settings. Includes all settings in Paper/Quality/Sys Default except Tray Alignment and Control Panel Password. Configuration Menu Equivalent: Sys Default/ Restore Default/Restore Printer
Restore Factory Defaults/Network Firmware	Restores the printer's network interface to factory default settings. Includes all settings except Parallel I/O timeout and PageScope Light password. Configuration Menu Equivalent: Sys Default/ Restore Default/Restore Network

Section 5
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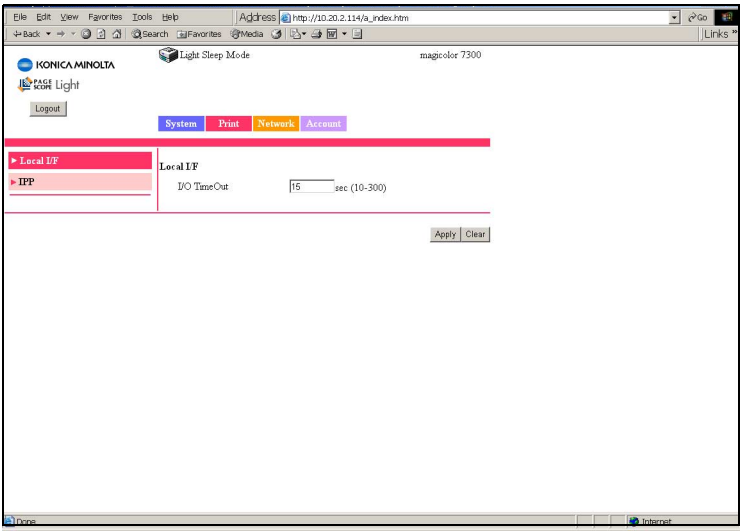
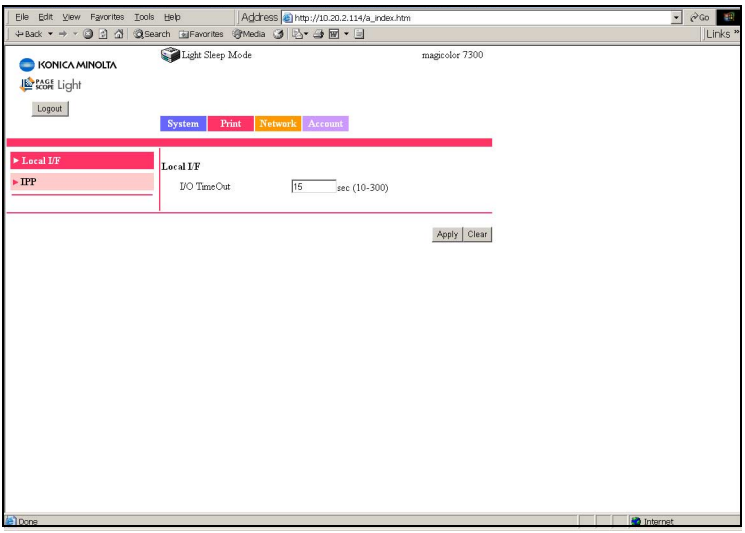


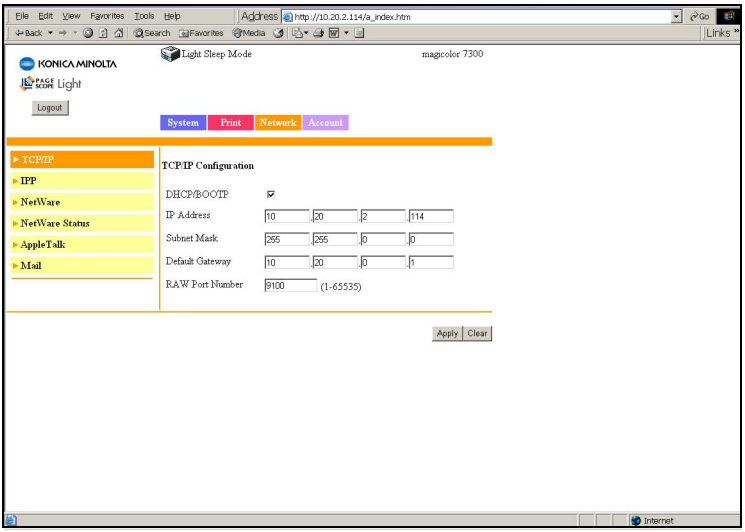
Local I/F

Local I/F	
I/O TimeOut 	Changes the I/O TimeOut. Range: 10-300 Seconds Default: **15** Configuration Menu Equivalent: Interface/Parallel/IO Timeout



Item	Description
IPP	
Printer Name	Allows you to enter the printer name. Range: Up to 127 characters Default: *Blank*

TCP/IP



Item	Description
DHCP/BOOTP 	Allows you to enable or disable DHCP and BOOTP. Choices: On Off Default: **On** Configuration Menu Equivalent: Interface/Ethernet/ DHCP/BOOTP
IP Address* 	Sets the printer's IP address. Range: 0–255 for each triplet Default: **0.0.0.0** If the IP address is outside the range, the following message displays when you choose the Apply button: "Update unsuccessful. The address entry is incorrect. Please go back to the previous page." Choose the browser's Back button and then type an appropriate number. Configuration Menu Equivalent: Interface/Ethernet/ IP Address

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Item	Description
Subnet Mask* 	Sets the subnet mask address. Range: 0–255 for each triplet Default: **0.0.0.0** If the subnet mask address is outside the range, the following message displays when you choose the Apply button: “Update unsuccessful. The address entry is incorrect. Please go back to the previous page.” Choose the browser’s Back button and then type an appropriate number. Configuration Menu Equivalent: Interface/Ethernet/ Subnet Mask
Default Gateway 	Enables the gateway. Range: 0–255 for each triplet Default: **0.0.0.0** Configuration Menu Equivalent: Interface/Ethernet/ Gateway
RAW Port Number	Range: 1–65535 Default: **9100**
Notes: *Always enter these addresses without leading zeros. For example, 131.011.010.001 should be entered as 131.11.10.1.	

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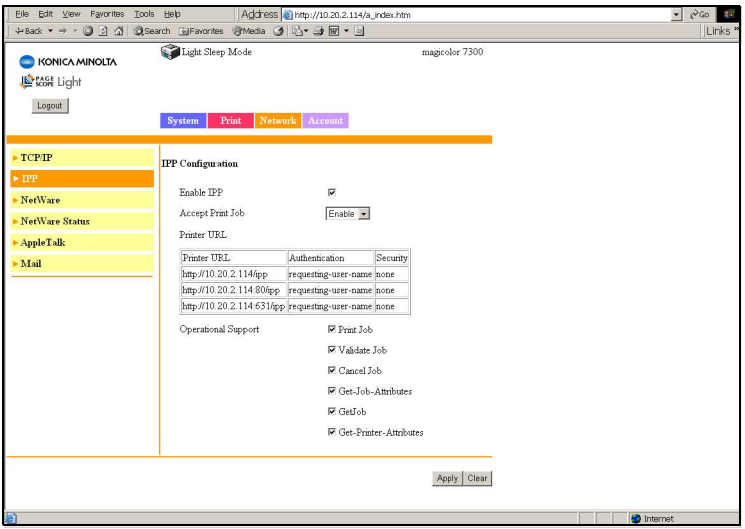

Item	Description
IPP Configuration	
Enable IPP	Allows you to enable (checked) or disable IPP.
Accept Print Job	Enables or disables the IPP Printing option. Choices: Enable Disable Default: **Enable**
Printer URI	Lists Printer URI, Authenticity, and Security for current printers.
Operational Support	Allows you to choose to activate and deactivate the following settings: Print Job Validate Job Cancel Job Get-Job-Attributes GetJob Get-Printer-Attributes

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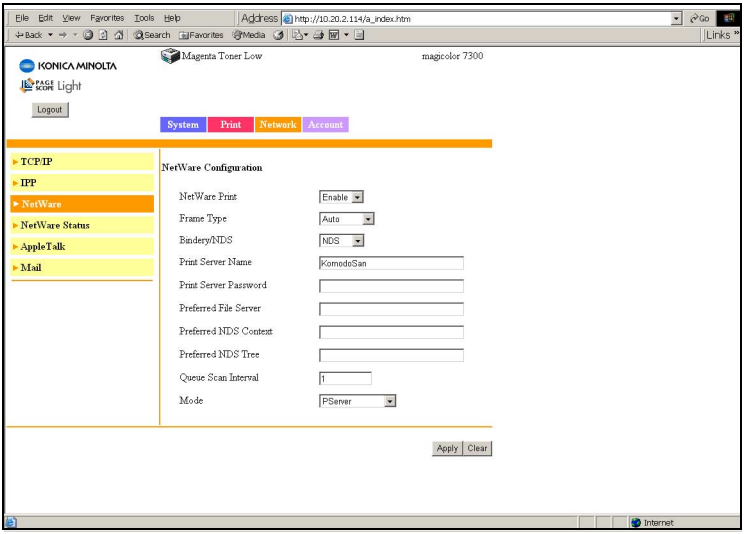

Item	Description
NetWare Configuration	
NetWare Print	Enables or disables the NetWare Print option. Choices: Enable Disable Default: **Enable**
Frame Type	Identifies the frame type. Choices: Auto Ethernet 2 802.2 802.3 SNAP Default: **Auto**
Bindery/NDS	Identifies the bindery options. Choices: Bindery NDS Both Default: **NDS**

Item	Description
Print Server Name	Identifies the Print Server Name for the printer. Range: Up to 63 characters Default: *Blank*
Print Server Password	Identifies the Print Server Password for the printer. Range: Up to 63 characters Default: *Blank*
Preferred File Server	Identifiess the Preferred File Server for the printer. Range: Up to 63 characters Default: *Blank*
Preferred NDS Context	Identifies the Preferred NDS Context for the printer. Range: Up to 191 characters Default: *Blank*
Preferred NDS Tree	Identifies the Preferred NDS Tree for the printer. Range: Up to 63 characters Default: *Blank*
Queue Scan Interval	Identifies the number of the queue scan interval. Range: 1–65535 Default: **1**
Mode	Identifies the NetWare Configuration mode. Choices: PServer NPrinter/RPrinter Default: **PServer**

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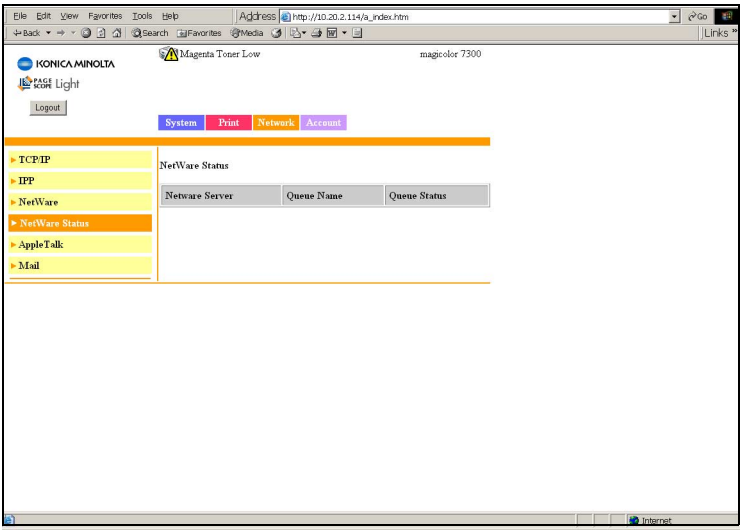
NetWare Status



NetWare Server

Lists current NetWare server.

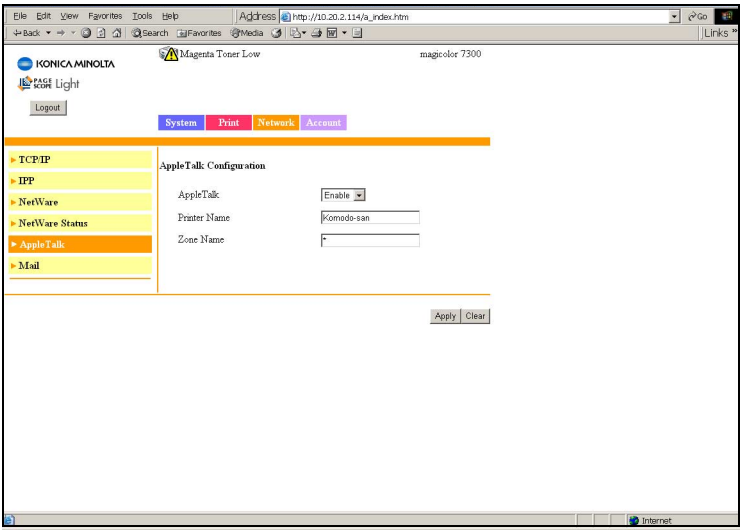
Queue Name

Lists current NetWare queue name.

Queue Status

Lists current NetWare queue status.

AppleTalk



Item	Description
AppleTalk Configuration	
AppleTalk	Enables or disables AppleTalk. Choices: Enable Disable Default: **Enable**
Printer Name	Sets the printer name. Range: Up to 31 characters Default: *Blank*
Zone Name	Sets the zone name. Range: Up to 31 characters Default: *

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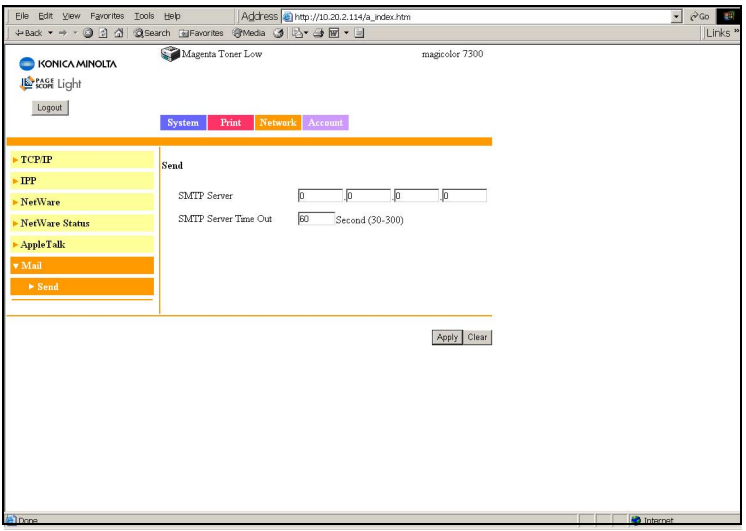
Mail



Send

Item	Description
Send	
SMTP Server	Sets the SMTP Server ID. Range: 0–255 for each triplet Default: **0.0.0.0**
SMTP Server Time Out	Displays SMTP Server Time Out in seconds. Range: 30–300 Seconds Default: **60 Seconds**

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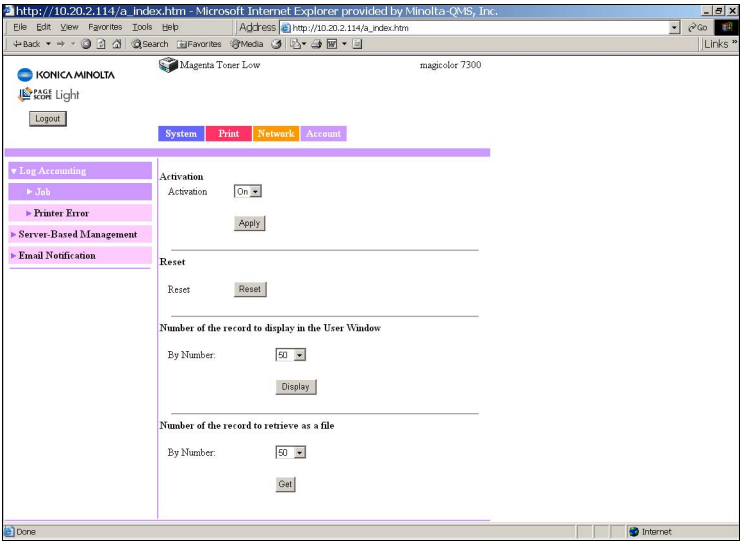
Administrator Mode—Account Tab

Only displays if a hard disk is attached.

Log Accounting

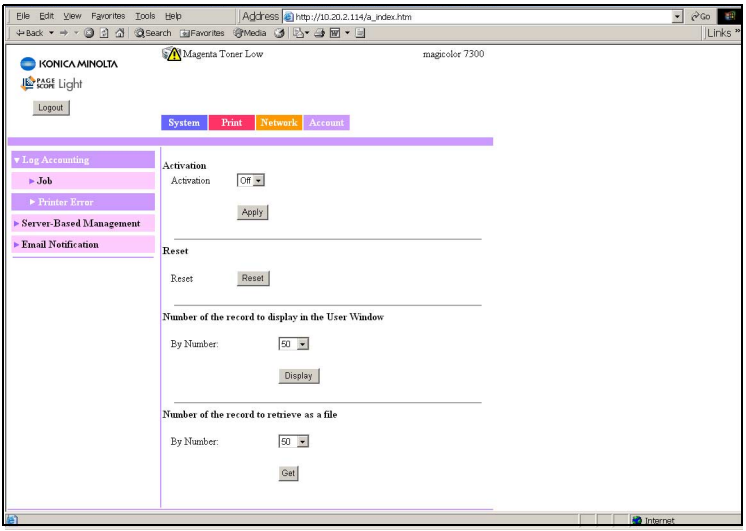
Job



Item	Description
Activation	
Activation	Choices: On Off Default: **On** Choose Apply after making a change.
Reset	Choose Reset to reset the accounting utility. *In order for Reset Accounting to work, you need to download the PageScope Net Care plug-in for the magicolor 7300 from www.konicaminolta.net/printer/ and follow the instructions in its readme file.*
Number of the record to display in the User window	By Number Range: 50, 100, 250, 500, All Default: **50** Choose Display to display the records.

Item	Description
Number of the record to retrieve as a file	By Number Range: 50, 100, 250, 500, All Default: **50** Choose Get to get the records.

Printer Error

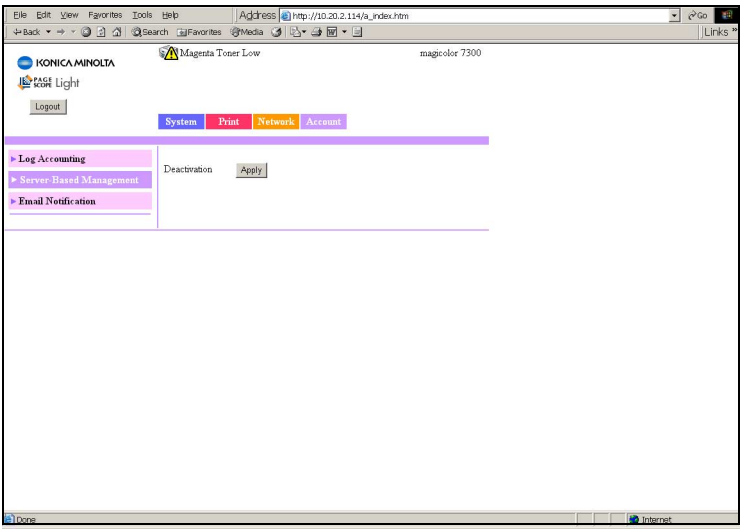


Item	Description
Activation	
Activation	Choices: On Off Default: **Off** Choose Apply after making a change.
Reset	Choose Reset to reset the accounting utility.
Number of the record to display in the User window	By Number Range: 50, 100, 250, 500, All Default: **50** Choose Display to display the records.

Item	Description
Number of the record to retrieve as a file	By Number Range: 50, 100, 250, 500, All Default: **50** Choose Get to get the records.

Server-Based Management

Deactivation



The Apply button allows you to activate or deactivate Server-Based Management.

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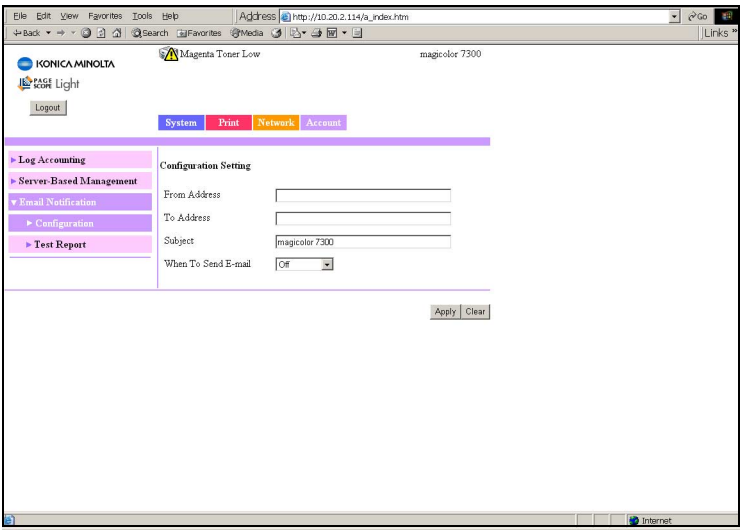
Email Notification

Configuration



Item	Description
Configuration Setting	
From Address	Range: Up to 129 characters Default: *Blank*
To Address	Range: Up to 129 characters Default: *Blank*
Subject	Range: Up to 128 characters Default: **magicolor 7300**
When to Send Email	Choices: Off 1 Minute 30 Minutes 1 Hour Default: **Off**

Test Report

Test Report allows you to print a test report with the Apply button.

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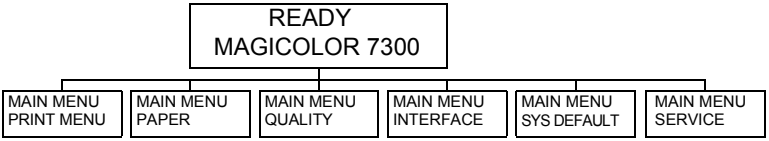
Configuring your Printer via the Printer Control Panel Menus

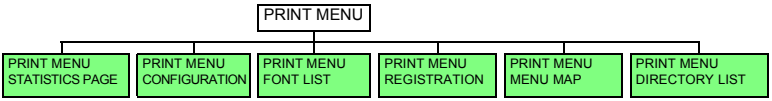
Many of the printer's configuration settings can be made through the printer's control panel. The following menu charts identify option locations in the menu structure.

Clicking on a shaded menu item opens a page in the PageScope Light section (previous section) to provide information about equivalent controls and settings. After viewing the PageScope Light information, select the Previous View button to return to the menu section.

Main Menu



Print Menu



Statistics Page	Print a statistics page that indicates the condition of consumables.
Configuration	Print a configuration page.
Font List	Print a font list of each PDL.
Demo Page	Print a demonstration page.
Registration	Print a registration page.
Menu Map	Print a menu map of the control panel menus available.
Directory List	Print a directory list. *Only displays if a hard disk is attached.*

Use letter/A4 media for printing statistics page, configuration page, and font list.

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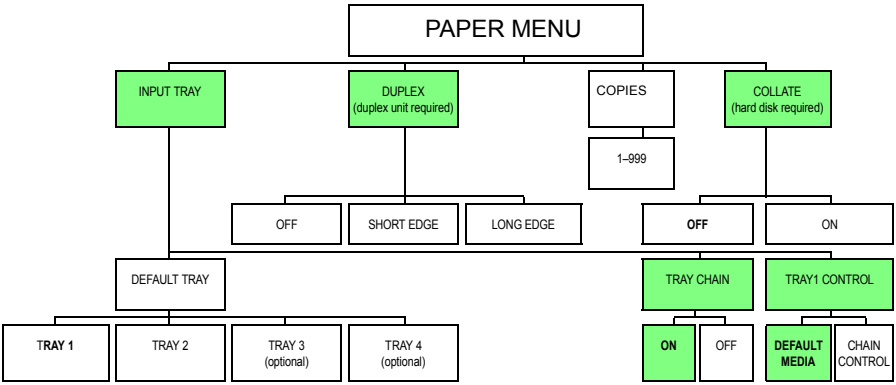
Paper Menu



Input Tray	Enter settings related to the media tray. Options: Default Tray Tray Chain Tray1 Control Tray selection may be overridden by the printer driver. *If custom size media is installed in Tray1 when TRAY CHAIN is ON, the media size may not be recognized correctly when the tray is switched.*
Default Tray	Specify the tray that is normally used. Choices: Tray1 Tray2 Tray3 Tray4 Default: **Tray1**
Tray Chain	Specify whether to switch to a tray containing media of the same size when the specified tray becomes empty. Choices: On Off Default: **On**

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Tray1 Control	Specify the default media type that is set in Tray1 (Default Media). Specify whether to include Tray1 as a possible switch tray for Tray chain (Chain Control). Choices: Default Media Chain Control Default: **Default Media**
Duplex	Set DUPLEX when you wish to perform duplex printing. Choices: Off: Simplex printing. Short Edge: Duplex printing in calendar style using portrait orientation. Long Edge: Duplex printing in book style using portrait orientation. Default: **Off** *Displayed only when the optional duplex unit is installed.*
Copies	Specify the number of copies to be printed. Range: 0–999 Defaut: **1**
Collate	Set the sorting function. When turned ON and two or more copies are printed, the copies are automatically sorted. (ex. 1, 2, 3, 1, 2, 3, … 1, 2, 3) Choices: On Off Default: **Off** *Displayed only when the optional hard disk drive is installed.*

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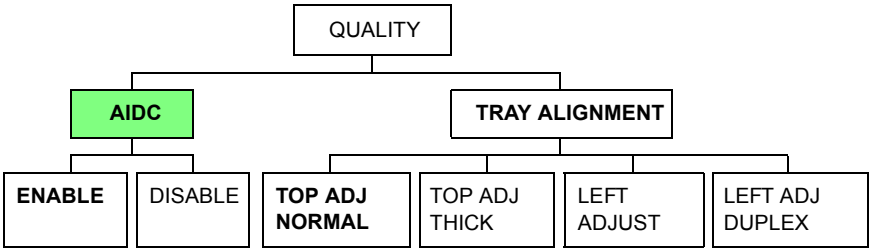
Quality Menu



AIDC	Specify whether to enable the Automatic Image Density Control. When turned ON, AIDC calibration is executed at a constant cycle. Choices: Enable Disable Default: **Enable**
Tray Alignment	Print position alignment is performed on each media tray. Select the submenu below and select the tray you wish to align. Options: Top Adj Normal Top Adj Thick Left Adjust Left Adj Duplex *After making an alignment, print a test page to see if the print position is appropriate.*
Top Adj Normal Tray1 Tray2 Tray3 Tray4 Duplex2pass Manual Feed	Align the top margin in the feed direction for printing on plain paper. Range: –2.4 to +2.1 mm Default: **0.0 mm**
Top Adj Thick Tray1 Manual Feed	Align the top margin in the feed direction for printing on thick stock. Range: –1.6 to +1.4 mm Default: **0.0 mm**

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Left Adjust Tray1 Tray2 Tray3 Tray4 Manual Feed	Align the left margin in the feed direction. Range: –2.4 to +2.1 mm Default: **0.0 mm**
Left Adj Duplex Tray1 Tray2 Tray3 Tray4	Align the left margin of the backside of duplex printing. Range: –2.4 to +2.1 mm Default: **0.0 mm**

Why Would a Tray Need Alignment?

The Top Adj Normal, Top Adj Thick, Left Adjust, and Left Adj Duplex adjustments allow you to modify the way the image is placed on the page.

This alignment is useful to users who need the images shifted due to stationery requirements (such as photos or colored margins on the left side of the paper), or when printing on paper that will be punched on any side for binding holes.

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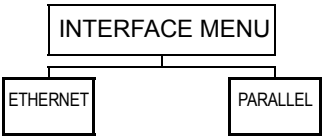
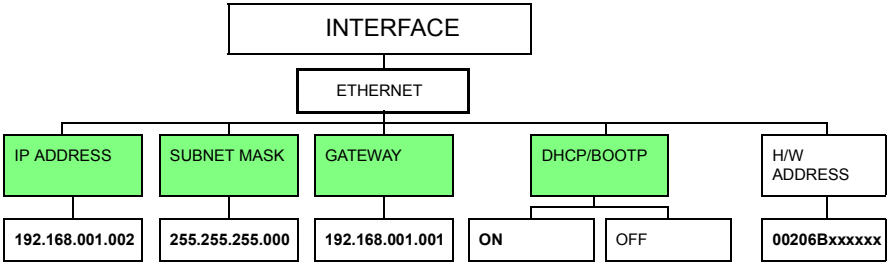
Interface Menu



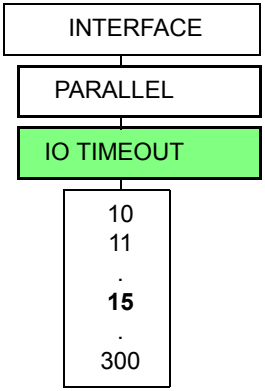
Interface/Ethernet



Ethernet	If the printer is connected and used on a network, the following settings should be specified. For details about each setting, contact your network administrator. Options: IP Address Subnet Mask Gateway H/W Address
IP Address	Set the IP address of this printer on the network. Use the Up, Down, Left, and Right keys to enter the value. Range: 000.000.000.000 to 999.999.999.999 Default: **0.0.0.0**
Subnet Mask	Set the subnet mask value of the network. Use the Up, Down, Left, and Right keys to enter the value. Range: 000.000.000.000 to 999.999.999.999 Default: **0.0.0.0**

Gateway	If a router is used on the network, enter the IP address of the router. Use the Up, Down, Left, and Right keys to enter the value. Range: 000.000.000.000 to 999.999.999.999 Default: **0.0.0.0**
DHCP/BOOTP	DHCP/BOOTP: Set this setting to YES when there is a DHCP server on the network or the IP address is assigned automatically using BOOTP. Choices: On Off Default: **On**
H/W Address	The Ethernet hardware address for this printer can be displayed. (It cannot be changed.) Default: **00206Bxxxxxx**
Notes:	After the Ethernet settings are changed, the printer automatically reboots.

Interface/Parallel



Parallel	If the printer is connected and used on a parallel connection, the following setting should be specified.
IO Timeout	Set the time for timing out when there is no data exchange for a given time for the parallel connection. Range: 10–300 Default: **15**

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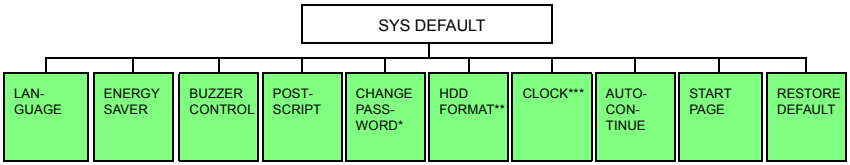
System Default Menu



Notes: *0000 = Disable Password.

**HDD (Hard Disk Drive) format only appears if an optional hard disk is installed*.

***Date conventions set at the factory:
220 volt: DD.MM.YYYY
100 volt: YYYY.MM.DD
110 volt: MM.DD.YYYY
Y = Year, M = Month, D = Day.

Default time zone:
100V — Japan Standard Time
110V — Greenwich Mean Time
220V — Central European Time

Language	The language in which messages are displayed can be changed. Choices: English French German Italian Portuguese Spanish Czech Japanese Default: **English**

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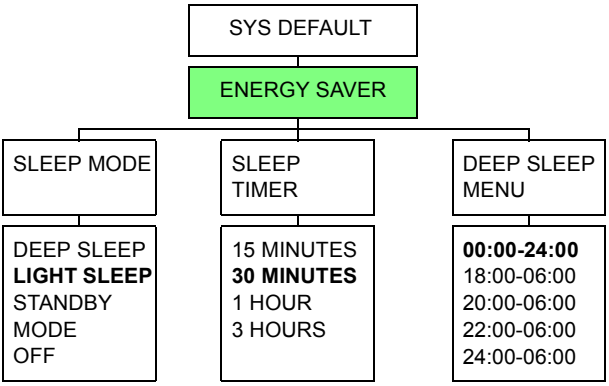
System Default/Energy Saver



Energy Saver	If a print job is not received or no operation is performed for a given time, the printer enters sleep mode. This menu sets the details of sleep mode. Options: Sleep Mode Sleep Timer Deep Sleep Menu

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Sleep Mode	Choices:	Deep Sleep: This is displayed only when Deep Sleep Mode is On. When set to Disable, the printer waits in light sleep mode without entering deep sleep mode. When set to Enable, the printer enters deep sleep mode after light sleep mode. If a time slot is specified and the sleep timeout expires during the time slot, the printer enters deep sleep mode directly without entering light sleep mode. The printer and control panel are disabled, but the control panel's Energy Saver LED is lit which means the Energy Saver button is active to enable the printer to "wake up." Light Sleep: To save energy and extend the life of the fuser, the printer goes into an Energy Saver mode. The printer may receive and process data, and the control panel is fully functional. Standby Mode: This preheating mode keeps the fuser warm and ready to print. Off: when set to Off, the printer is ready for operation at all times.
	Default:	**Off**
Sleep Timer	Choices:	15 Minutes 30 Minutes 1 Hour 3 Hours
	Default:	**30 Minutes**
Deep Sleep Menu	Choices:	00:00-24:00 18:00-06:00 20:00-06:00 22:00-06:00 24:00-06:00
	Default:	**00:00–24:00**

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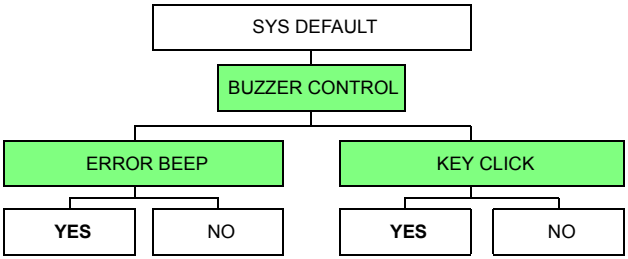
System Default/Buzzer Control



Buzzer Control	Options:	Error Beep: Set whether to sound a buzzer when errors occur. Choices: Yes No Default: **Yes** Key Click: Set whether to generate key-touch sounds. Choices: Yes No Default: **Yes**

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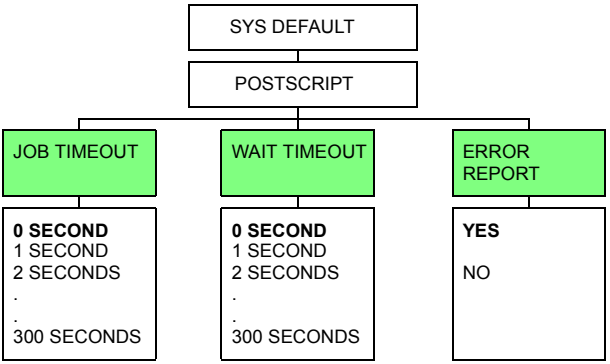
System Default/PostScript



PostScript	Options: Job Timeout Wait Timeout Error Report
Job Timeout	Set the maximum amount of time the printer processes a print job before it ends the job. (0 Seconds corresponds to no timeout.) Range: 0–300 Seconds Default: **0 Seconds**
Wait Timeout	Set the maximum amount of time during which there is no data exchange before the printer ends the job. (0 Seconds corresponds to no timeout.) Range: 0–300 Seconds Default: **0 Seconds**
Error Report	Specify whether to print a report when a PostScript error occurs. Choices: Yes No Default: **Yes**

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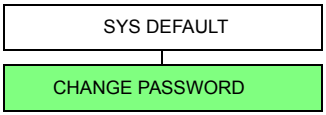
System Default/Change Password



Change Password	Set or change the password. The password specified here is required when entering the Interface menu and Sys Default menu. Range: 0000–9999 to AAAA–ZZZZ (up to 4 digits or characters in any combination) Default: **0000** Password = 0000 denotes “no password.” *This is the password set on the control panel for the printer, and is different than the Admin Password for PageScope Light.*

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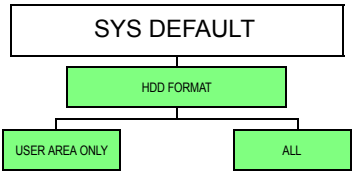
System Default/HDD Format



HDD Format only appears if the optional hard disk is installed.

HDD Format	Format the hard disk drive. Options: User Area Only All Default: *No default given* *Displayed only when the optional hard disk drive is installed.*
User Area Only	Format user area of hard disk drive, including delete fonts, overlays, and profiles.
All	Format entire hard disk drive, including delete all system files.
Notes:	The printer will automatically reboot after the user confirms the change and clicks OK.

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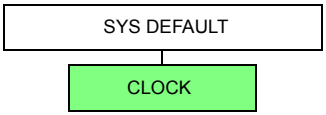
System Default/Clock



Clock	Set the date/time.
Notes:	Date conventions set at the factory: 220 volt: DD.MM.YYYY 100 volt: YYYY.MM.DD 110 volt: MM.DD.YYYY Y = Year, M = Month, D = Day. Default time zone: 100V — Japan Standard Time 110V — Greenwich Mean Time 220V — Central European Time

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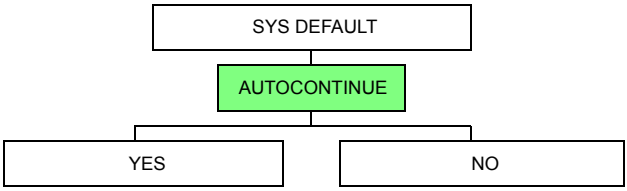
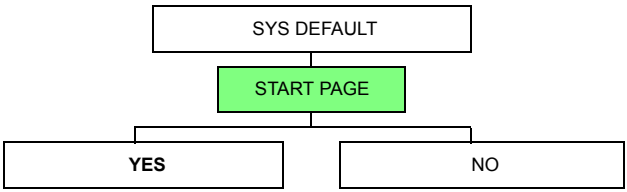
System Default/Autocontinue



Autocontinue	Auto continue determines tray/paper size selection (page policy). With Autocontinue=YES, the printer selects tray/paper size which has a same or nearest paper size among selected trays. Print image is automatically scaled to fit to selected size. With Autocontinue=NO, the printer selects tray/paper size which has exactly the same paper size among selected trays. Print image is not scaled, and a paper size mismatch error may occur. Choices: Yes No Default: **Yes**

System Default/Start Page



Start Page	A start page prints after power on. Choices: Yes—a start page prints after power on. No—a start page does not automatically print after power on. Default: **Yes**

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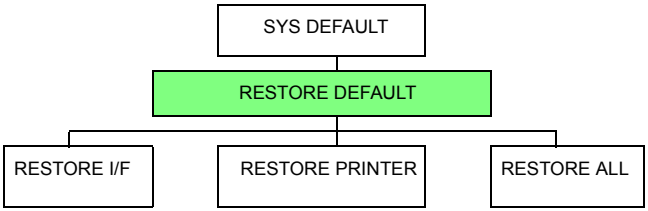
System Default/Restore Default



Restore Default	Options: Restore I/F Restore Printer Restore All Default: No default given.
Restore I/F	Restore the interface settings (except for the PageScope Light).
Restore Printer	Restore all settings in PAPER/QUALITY/SYS DEFAULT.
Restore All	Restore all settings.

Service Menu

The Service Menu is password protected. It allows a service technician to handle maintenance and service procedures.

Show Version	Display the controller firmware, engine firmware, and boot firmware versions.
Page Count	Display the total page counter value (8 digits).
Factory Setting	Set the software DIP switches (32 switches).

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Configuring your Printer via the Printer Drivers

The printer driver will override all control panel selections.

Accessing Windows Me/98 Printer Driver Configuration

There are two methods of accessing the printer driver configuration items in Windows Me/98:

1 ... via the printer device properties	**2 ... via your application's printer setup**
Gives you access to all printer settings.	Gives you access to Paper, Page Layout, Image, Device Option, and About tabs.
Lets you assign the default printer settings for all print jobs.	Lets you assigns the printer settings for only the current print job.
Retains your settings until changed again via properties.	Temporarily overrides the existing default settings.
How To: 1 From the **Windows Start menu** choose **Settings**, and then choose **Printers**. 2 Select your printer. 3 From the **File menu**, choose **Properties**. 4 Choose the **Details tab**, and then select **Setup**. 5 Make your selections, and then select **OK** to save your changes. 6 Close the Printers window.	How To: 1 From the application's **File menu** choose **Print** (or, in some cases, Print Setup or Page Setup). 2 In the Print, Print Setup, or Page Setup dialog box, choose your printer. 3 Select the **Properties** button. 4 Make your selections, and then select **OK** to save your changes. 5 Select **OK** from the Print Setup window.

You should configure your printer driver settings via the printer device properties method for your typical print jobs and use your application's printer setup method for print jobs that require special, less frequently needed printer settings.

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Standard Printer Driver Tabs in Windows Me/98

The configuration items of KONICA MINOLTA PostScript drivers are arranged on tabs in combination with the branches and tabs that are provided by the Windows operating system. Each tab or branch represents a functional part of a print job. See your operating system documentation and the printer driver's online help for complete information.

The standard Windows tabs and a summary of the options found on each are as follows:

- **General—**Allows you attach comments, use a separator page, and print a test page. See your Windows documentation.
- **Details—**Allows you to set interface connection details. See your Windows documentation.
  - **Setup Button—**This button on the Details tab leads to the Printer Configuration tabs that are also accessible from your application's printer setup properties.
- **Sharing—**Allows you to set up the printer so others on the network can use it. See your Windows documentation.
- **Color Management—**Allows you to select the color profile associated with your printer or allow the operating system to make the selection for you.

Driver Configuration Tabs

- **Layout Tab—**Contains configuration controls for setting page orientation, duplex options, staple options, and pages per sheet.
- **Paper Tab—**Contains media configuration items. These items allow you to select the media and control how the media is processed by the printer.
  - **Advanced Paper Handling—**You can configure page header, first page, trailer page, and media selection options.
- **Features Tab—**Contains links to color, graphics, and postscript dialogs, and provides resolution and quick color configuration options.
  - **Color Options—**Allow you to fine-tune color printing settings. However, in most cases, the color optimization provided in the Quick Color Configuration drop-down list box is the easiest way to produce the best color output possible.
    - *Configure ICC and CRD Color Matching Dialogs—Opened by selecting the configure buttons on the Color Options dialog.*
  - **Graphics Options—**Contains configuration items used to control the placement of the image on the page.

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- **PostScript Options—**Allows you to control headers, job timeouts and additional PostScript printing options.

- **Overlays Tab—**Contains the controls you need to configure and customize watermarks.
  - **Watermarks—**Accessible from the Overlays tab, the Watermarks dialog allows you add new watermarks and edit existing watermarks.
- **Fonts Tab—**Contains the configuration items that allow you to specify which fonts are used or substituted for, during printing.
- **Consumables Tab—**Allows you to monitor your printer's consumables and maintenance schedule. This information is available if the printer's IP Address is entered in the IP Name/Address text box on the Settings tab. The bars show the amount of planes or faces that are left before replacement or maintenance must occur.
- **Settings Tab—**Allows you to customize the printer driver for your printer configuration.
- **About Tab—**Displays the printer driver identification, gives you a link to our Internet website, and allows you to reset all of the driver's configuration items to their original values.

Accessing Windows XP/2000/NT4 Printer Driver Configuration

There are three methods you can use to configure the printer driver designed for Windows XP/2000/NT4. However, these three methods don't all have the same options or control.

1 ... via the printer device properties	**2 ... via your application's printer setup**
Gives you access to the General, Ports, Scheduling (Windows NT4) or Advanced (Windows XP/ 2000), Sharing, Security, and About tabs	Gives you access to the Paper, Page Layout, Image, Device Options, and About tabs
Lets you assign the printer settings for all print jobs	Lets you assigns the printer settings only for the current print job
Retains your settings until changed again via properties	Temporarily overrides the existing default document settings

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1... via the printer device properties	**2... via your application's printer setup**
How To: 1 From the **Windows Start menu** choose **Settings**. 2 Choose **Printers**. 3 Choose your printer. 4 From the **File menu**, choose **Properties**. 5 Make your selections, and then select **OK** to save your changes. 6 Close the Printers window.	How To: 1 From the application's **File menu** choose **Print** (or, in some cases, Print Setup or Page Setup). 2 In the Print, Print Setup, or Page Setup dialog box, choose your printer. 3 Select the **Properties** button. 4 Make your selections, and then select **OK** to save your changes. 5 Select **OK** from the Print Setup window.

3... via document defaults (Windows NT4) or via printing preferences (Windows XP/2000)
Gives you access to the Paper, Page Layout, Image, Device Options, and About tabs
Lets you assign the default printer settings for all print jobs
Retains your settings until changed again via properties
How To: 1 From the **Windows Start menu** choose Settings. 2 Choose **Printers**. 3 Select your printer. 4 From the **File** menu, choose **Default Document Properties** (Windows NT4) or choose **Printing Preferences** (Windows XP/2000). 5 Make your selections, and then select **OK** to save your changes. 6 Close the Printers window.

You should configure your printer driver settings via the printer device properties and document defaults properties for your typical print jobs and use your application's printer setup method for print jobs that require special, less frequently needed printer settings.

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Because Windows NT remembers the configuration changes you make to the driver, reinstalling the driver does not restore the factory default configuration.

Printer Device Properties in Windows XP/2000/NT4

The configuration items of KONICA MINOLTA PostScript drivers are arranged on tabs in combination with the branches and tabs that are provided by the Windows operating system. Each tab or branch represents a functional part of a print job. See your operating system documentation and the printer driver's online help for complete information.

The following are tabs that appear when the printer device properties has been chosen. The tabs and a summary of the options found on each are as follows:

- **General (Windows XP, Windows 2000, and Windows NT4)—**Allows you to name the printer, specify a location, specify a driver to be used, install a new or updated printer driver, use a separator page between documents, specify a specialized print processor/data type, and print a test page. See your Windows documentation.
- **Ports (Windows XP, Windows 2000, and Windows NT4)—**Lists the available ports (under Ports), the associated port monitor (under Description), and a comma-delimited list of printers that use the port (under Printer). Allows you to add, delete, or configure ports. It also allows the printer to get setting and status information from other printing devices, and enables printer pooling (printing to two or more identical printing devices through one logical printer). See your Windows documentation.
- **Device Settings (Windows XP, Windows 2000, and Windows NT4)—** Allows you to configure tray assignments, memory, output protocol and job timeout.
- **Settings (Windows XP, Windows 2000, and Windows NT4)—**Allows you to customize the printer driver for your printer configuration.
- **Consumables (Windows XP, Windows 2000, and Windows NT4)—** Allows you to monitor your printer's consumables and maintenance schedule. This information is available if the printer's IP Address is entered in the IP Name/Address text box on the Settings tab. The bars show the amount of planes or faces that are left before replacement or maintenance must occur.
- **Color Management (Windows XP and Windows 2000)—**Allows you to select the color profile associated with your printer or allow the operating system to make the selection for you. See your Windows documentation.
- **Advanced (Windows XP and Windows 2000), or Scheduling (Windows NT4)—**Allows you to configure the printer for availability, set

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spooling information, and define default document printing priority. See your Windows documentation.

- **Sharing (Windows XP, Windows 2000, and Windows NT4)—**Allows you to share the printer and install alternate drivers. See your Windows documentation.
- **Security (Windows 2000 and Windows NT4)—**Allows you to modify the permissions to limit access on the printer, view or set auditing information, or view or take ownership of the selected item(s). See your Windows documentation.

The About, Consumables, Features, Fonts, Layout, Paper/Quality, and Overlay tab—accessible from your application's printer setup and from document default properties are explained next.

Printing Preferences/Document Default Properties in Windows 2000/NT4

- **Paper/Quality Tab (Windows XP and Windows 2000), or Page Setup (Windows NT4)—**Contains media configuration items and color printing selection.
- **Layout Tab (Windows XP and Windows 2000)—**Contains controls for setting orientation, duplexing, page order, and pages per sheet.
- **Features Tab (Windows XP, Windows 2000, and Windows NT4)—** Allows you to choose printing resolution, quick color settings, and user default settings. From this tab you can also access additional choices for the following dialogs.
  - **Graphics Options—**Contains configuration items used to control the placement of the image on the page.
  - **Color Options—**Contains configuration items that allow you to fine-tune color printing settings. However, in most cases, the color optimization provided in the Quick Color Configuration drop-down list box is the easiest way to produce the best color output possible.
    - ***Configure ICC Color Matching—****The ICC Color Matching and CRD Color Matching dialogs are opened by selecting the configure buttons on the Color tab.*
    - ***PostScript Options—****Allows you to control headers, job timeouts and additional PostScript printing options.*
    - ***Document Options (Windows XP and Windows 2000)—****Allows you to setup configuration items to control collation, copy count, and E-mail notification.*
- **Overlays Tab (Windows XP, Windows 2000, and Windows NT4)—** Allows you to configure and customize watermarks.

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- **Watermarks Dialog—**Accessible from the Overlays tab, the Watermarks dialog allows you add new watermarks and edit existing watermarks.

- **About Tab (Windows XP, Windows 2000, and Windows NT4)—** Displays the printer driver identification, gives you a link to our Internet website, and allows you to reset all of the driver's configuration items to their original values.

Printer Driver Configuration Items

For information about printer controls and features, refer to the printer driver's online help.

Not all options described in online help are available on all models of KONICA MINOLTA printers. Refer to your printer documentation to determine which options apply to your printer.

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Accounting 5.4

Printer-based Accounting

Your printer can capture and save details about each print job your printer processes. The captured information is stored in an accounting file on the printer's internal hard disk and can be retrieved using PageScope Light . This chapter describes how to retrieve and interpret the accounting information stored in the accounting file.

You can also use PageScope Net Care to perform advanced accounting tasks. It can gather accounting information for an individual printer or it can combine accounting data for multiple printers on the same network into a single database. See the PageScope Net Care online help or check the user manual on the Software Utilities CD-ROM or from the KONICA MINOLTA website at www.konicaminolta.net/printer/.

Retrieving Accounting Information

Using PageScope Light

You can retrieve accounting data from your printer using the printer's internal web page interface (PageScope Light).

If Administration security is enabled from the Configuration/Security window, changing accounting parameters requires an administrator password.

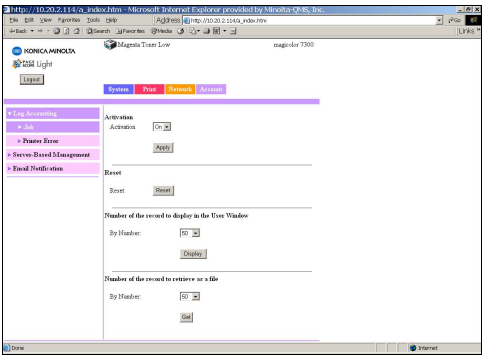
1 Open the PageScope Light interface associated with the printer containing a hard disk and the accounting data you want to retrieve.

2 Select the Account tab.

The Account tab opens.

3 Choose the Number of the Record to Retrieve in the User Window. Click **Display**.

4 Choose how and where the accounting information is to be retrieved from the Display Information list box.



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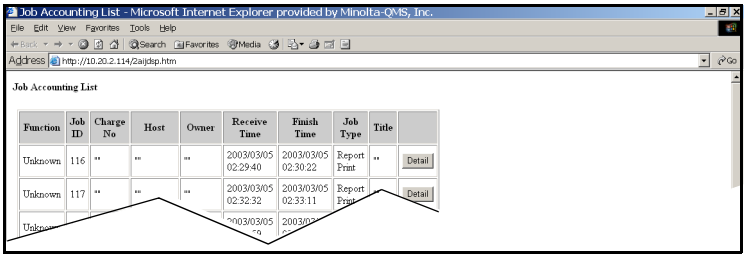
Job Accounting Data Display Example


Job Accounting List - Microsoft Internet Explorer provided by Minolta-QMS, Inc.
File Edit View Favorites Tools Help
Address http://10.20.2.114/2aijdsp.htm
Job Accounting List
Function
Job ID
Charge No
Host
Owner
Receive Time
Finish Time
Job Type
Title
Unknown 116 "" "" "" 2003/03/05 02:29:40 2003/03/05 02:30:22 Report Print "" Detail
Unknown 117 "" "" "" 2003/03/05 02:32:32 2003/03/05 02:33:11 Report Print Detail

Accounting File Format

CSV File Format

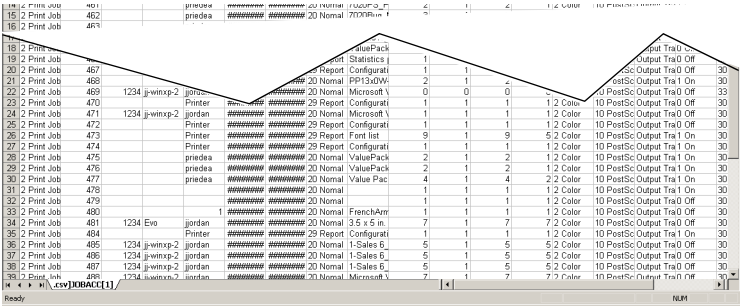
The printer stores accounting data in a CSV (Comma Separated Values) file format. CSV is an ASCII (plain text) representation of spreadsheet data. The values are separated by commas to indicate the separating points for columns.

The character code format for the CSV data is UTF-8.

Data Order

The first line of the file is used for describing each field name. This line is created when each accounting function is activated. Lines following the first line are used for storing actual accounting information.

New information is always attached to the bottom line of the file.



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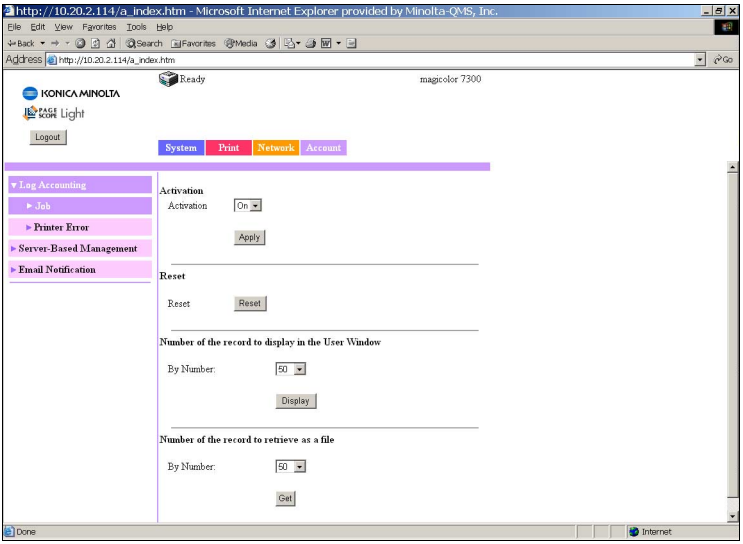
Log Accounting/Job Data Example



Log Accounting Fields

Field	Activation
Format	Choices: ON OFF Default: **ON** Button: Apply
Description	This field displays the information identifying that the Job Accounting has been turned on or off.

Field	Reset
Format	Choices: ON OFF Default: **ON** Button: Reset
Description	In environments where PageScope Net Care is used and the mail settings have been specified for PageScope Net Care and PageScope Light, pressing this button resets the job accounting log.

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Field	Number of record to display in the User Window
Format	Choices: 50, 100, 250, 500, or ALL Default: **50** Button: Display
Description	This field displays the information identifying the number of the record to display in the User Window.

Field	Number of record to retrieve as a file
Format	Choices: 50, 100, 250, 500, or ALL Default: **50** Button: Get
Description	This field displays the information identifying the number of the record to retrieve as a file.

Field Definitions

This section identifies and defines the Log Accounting/Job fields that are used in the Accounting file.

As each print job is completed, the information describing the print job is saved in the accounting file. This information allows you to analyze consumable usage, media usage, operator usage, and the history of printer activities.

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Job Accounting Fields

Field	Function
Format	<Numeric (1 digit)><Space><String (1–32 characters)>
Description	This field identifies the printer function that was completed. Example: 2 Print Job.

Field	Job ID
Format	<Numeric (1–65536 digits)>
Description	This number is used to uniquely identify print jobs sent to the printer. The Job ID is an incremental counter (1-65536) and counts all print jobs received by the printer. After the counter reaches 65536, it restarts the count from 1. The Job ID is assigned when the printer recognizes the data it is receiving as a job.
Notes	*The current count remains in memory even after the printer is turned off.*

Field	Division ID
Notes	*Not supported on the magicolor 7300.*

Field	Charge No
Format	<Numeric (1– 8 digits)>
Description	This field displays information identifying the group to be charged for the job.
Notes	*The value of this field corresponds to the PJL command* `@PJL SET CHARGENUMBER`.

Field	Host
Format	<String (1–16 characters)>
Description	This field displays the information identifying the host that submitted the job.
Notes	*The value of this field corresponds to the PJL command* `@PJL SET HOST`.

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Field	Owner
Format	<String (1–64 characters)>
Description	This field displays the information identifying the owner of the job.
Notes	*The value of this field corresponds to the PJL command* `@PJL SET USERNAME`.

Field	Receive Time
Format	<YYYY/MM/DD><Space><HH:MM:SS>
Description	This field displays the date and time when the printer received the job. Example: 2003/03/05 16:48:30
Notes	*This format is supported by MS Excel.*

Field	Finish Time
Format	<YYYY/MM/DD><Space><HH:MM:SS>
Description	This field displays the time when the final page of the job was delivered to the output bin. Example: 2003/03/05 16:48:35
Notes	*This format is supported by Microsoft Excel.*

Field	Job Type
Format	<Numeric (1–2 digits)><Space><String (1–16 characters)>
Description	This field categorizes the type of job received by the printer. Examples: 20 Normal — General printing job. 21 IPP Print — Normal jobs received via IPP protocol. 29 Report Print — Internally created job.

Field	Title
Format	<String (1–32 characters)>
Description	This field displays the title of the document, if known.
Notes	*The value of this field corresponds to the PJL command* `@PJL JOB NAME`.

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Field	Document Pages
Format	<Numeric (1–999)>
Description	This field displays the number of pages in the job. Example: 5 pages x 4 copies x simplex = the value is 5.

Field	Copies
Format	<Numeric (1–999)>
Description	This field displays the number of copies in the job. Example: 5 pages x 4 copies x simplex = the value is 4.

Field	Faces
Format	<Numeric (1–9,999)>
Description	This field displays the number of faces printed in the job. Example: 5 faces x 4 copies x simplex = the value is 20.

Field	Sheets
Format	<Numeric (1–999)
Description	This field displays the number of physical sheets of paper in the job. Example: 5 pages x 4 copies x simplex/(duplex) = the value is 20/(10).

Field	Image Type
Format	<Numeric (1 digit)><Space><String (1–16 characters)>
Description	The image type in the color mode. Examples: 2 Color (including monochrome color and full color) and 4 Grayscale.

Field	Format
Format	<Numeric (1–2 digits)><Space><String (1–16 characters)>

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Description	This field displays the file format or language of the job. Examples: 8 PDF and 10 PostScript.

Field	**Data Size**
Notes	*Not supported on the magicolor 7300.*

Field	**Destination**
Format	<String (1–32 characters)>
Description	This field displays the media output tray.
Notes	*The magicolor 7300 supports only one output tray.*

Field	**Finishing**
Notes	*Not supported on the magicolor 7300.*

Field	**Duplex**
Format	<Numeric (1 digit)><Space><String (1–8 characters)
Description	This field displays the duplex printing mode. Examples: 1 On and 2 Off.

Field	**Cyan Coverage**
Notes	*Not supported on the magicolor 7300.*

Field	**Magenta Coverage**
Notes	*Not supported on the magicolor 7300.*

Field	**Yellow Coverage**
Notes	*Not supported on the magicolor 7300.*

Field	**Black Coverage**
Notes	*Not supported on the magicolor 7300.*

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Field	Status
Format	<Numeric (1–2 digits)><Space><String (1–16 characters)>
Description	This displays the completion status of the page. Examples: 0 Unknown, 30 OK, 33 Canceled.

Field	Details (Status)
Notes	*Not supported on the magicolor 7300.*

Field	Connection
Format	<String (1–16 characters)>
Description	This field displays the type of printer connection. Examples: Ethernet, USB, IEEE1284, and Internal.

Field	Paper Size
Format	<Numeric (1–3 digits)><Space><String (1–8 characters)>
Description	This field displays the paper size used by the job. Examples: 31 11x17 and 39 letter.

Field	Media Type
Format	<Numeric (1–2 digits)><Space><String (1–16 characters)>
Description	This field displays the media type used by the job. Examples: 210 Plain Paper and 230 Transparency.

Field	Resolution
Format	<String (1–16 characters)>
Description	This field displays the resolution (DPI) of the job. Examples: 600*600*1 and 600*600*4 (4-bit contone).

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PJL Commands

In this Section...

- Chapter 6.1 — “Introduction”
  Describes PJL, features, and an overview of the commands available for your printer.
- Chapter 6.2 — “Conventions”
  Describes the typographical and context conventions that must be used when working with the PJL command set and information about variables and language configuration.
- Chapter 6.3 — “Issuing PJL Commands”
  Identifies the methods that can be used to send PJL commands to your printer.
- Chapter 6.4 — “PJL Commands”
  Identifies the PJL commands supported by your printer.
- Chapter 6.5 — “Status Codes”
  Describes the status codes that are returned following the transmission of @PJL INFO STATUS and USTATUS commands to the printer.
- Chapter 6.6 — “DOC Matrix”
  Identifies the methods that can be used to make the transition from DOC Commands to PJL commands.

Chapter Location

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6.2	“Conventions”	283
6.3	“Issuing PJL Commands”	289
6.4	“PJL Commands”	293
6.5	“Status Codes”	307
6.6	“DOC Matrix”	311

6.1 *Introduction*

About PJL

Printer Job Language (PJL) enables technical support and software application developers to send commands to the printer and receive printer status. This allows you to control the printer's configuration for a print job and to establish two-way communications with the printer. In addition, PJL commands can be used to change the printer's control panel settings and to change the printing language from within applications.

In This Section

This PJL Reference Section contains information about the PJL commands that are supported by your printer. Section 6.1 provides a general introduction to PJL. Section 6.3 contains the full list of PJL commands supported by your printer and describes the function of each command. If you have experience using PJL commands, you can skip the remainder of this section and begin with Section 6.2.

Overview of PJL

Using PJL to configure or to communicate with your printer requires the use of PJL commands, which may include the use of PJL environmental variables, modifiers, and parameter values to define the commands given.

Supported PJL Command Set

The following lists identify the PJL commands that are supported by your KONICA MINOLTA printer.

Additional information about each command is given in Section 6.4.

Kernel Commands

UEL

ENTER

PJL

Job Control Commands

JOB

EOJ

Special Commands

UPDATE

FILE

TEST

Environmental Commands

DEFAULT

INITIALIZE

RESET

SET

Environmental Variables

Environmental variables are used with the PJL commands to provide printer-specific controls and additional communication tools your printer can understand.

The following lists identify the common PJL environmental variables that are supported by your KONICA MINOLTA printer.

The full list of PJL variables, with additional information about each variable, is given in Section 6.4.

AUTOCONT

BINDING

COPIES

DUPLEX

MEDIASOURCE

MEDIATYPE

NUP

OUTPUT

PAPER

QTY

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RESOLUTION

TIMEOUT

PERSONALITY

6.2 *Conventions*

Introduction

Conventions denotes two meanings: 1) How this manual uses character and document formatting to define the PJL commands and variables (see Document Conventions), and 2) How you should enter PJL command text in your application to ensure the printer recognizes the commands correctly (see “PJL Command Syntax” on page 285).

Document Conventions

The text describing the available PJL commands and variables in Section 6.4 appear in tables like the one shown below.

Command or Variable	**Command (or variable) Name**
Syntax	`Command Syntax`
Response Syntax	`Response Syntax`
Description	Command description
Notes	*Notes about the command or its usage.*

- ☑ The first row identifies the PJL command or environmental variable defined in the table.
- ☑ The Syntax row displays the correct method of entering the command and any required or optional arguments that are or can be associated with the command. Unless otherwise noted, all of the text appearing in this row must be entered on the same line of the PJL job. See the PJL Command Syntax section for additional information.
- ☑ Response Syntax identifies the syntax that the printer uses in its responses to queries.
- ☑ The Description row defines the command’s function.
- ☑ Notes contains any additional information, tips, or cautions that may help you when applying the defined command or its arguments.

PJL Command Syntax

The characters and symbols used when identifying the syntax of PJL commands is defined in the following table:

[ ]	Square brackets enclose any optional arguments that can be used in conjunction with the command. If you use optional arguments, don't type the brackets.
< >	Angled brackets enclose control characters. When these appear in the Syntax, enter the control code only (don't type the <> characters). See the next section for control character definitions.
|	Vertical bar appear in command syntax to indicate that there are multiple optional parameters.
CAPS	The complete @PJL command must be in uppercase.

Control Character Definitions

This table defines the control characters used in PJL command syntax.

Control Character	Character Description	Hex Code	ASCII Code
<CR>	Carriage Return	0x0D	13
<ESC>	Escape	0x1B	27
<FF>	Form Feed	OxOC	12
<HT>	Horizontal Tab	0x09	9
<LF>	Line Feed	0x0A	10
<SP>	Space	0x20	32
<UEL>	Universal Exit Language	0x1B 25 2D 31 32 33 34 35 58	
<WS>	White Space	Ox09 or Ox20	9, 32

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Universal Exit Language (<UEL>) Usage

The <UEL> Kernel Command signals to the printer that a PJL job needs to be processed or has completed processing. This allows the printer to switch between PJL and its default printing language (for example, PostScript). The following bullets identify the rules you should follow when using the <UEL> Command:

- Always start and end all PJL jobs with the <UEL> Command. The Syntax for this command is

  ```
  <ESC>%-12345X
  ```

- The <UEL> Command at the beginning of the PJL job must be immediately followed by the @PJL prefix. No spaces or other characters can be placed between the <UEL> and the @PJL characters. For example,

  ```
  <ESC>%-12345X@PJL
  ```

  Following the text shown in the above example, you can continue with a <CR> <LF> to begin another PJL command on the next line, or you can use the @PJL on this line to start another PJL Command.

- No text can follow the <UEL> placed at the end of the PJL job.

Additional Syntax Rules

- The <LF> (Line Feed) control code must be used at the end of each PJL command to terminate the line.

  The only exception to this rule is the <UEL> command, which does not require the <LF> control code.

- The <CR> control character is optional, but can be useful when spacing is needed between command lines (no blank lines are allowed in PJL jobs). Always place the optional <CR> before the <LF>, which is used to terminate the line.
- A space (ASCII 32, Hex 0x20) or tab (ASCII 9) is required between the @PJL prefix and the PJL command name.
- A space (ASCII 32, Hex 0x20) is required between the PJL command name and command arguments.

Variables and Values

Many PJL commands require the use of variables to assign values to the command parameters. PJL commands support the use of alphanumeric variable characters when the following rules are applied:

Alpha characters

- All variables must begin with an alpha character.
- Do not use spaces in variables.
- Alpha characters must be Roman-8 uppercase (characters 65-90).

Numeric characters

- Do not begin variables with a numeric character.
- If a decimal is used in a numeric value, a number must precede the decimal point, and only one decimal point is allowed in a value.
- Do not use commas in numeric values.
- Numeric characters must be Roman-8 numbers 0-9 (characters 48-57).

Strings

- Strings are not used in variables but may be used as values.
- Strings can use any combination of the alpha and numeric characters that follow the guidelines described above.
- Strings must be placed within double quotation marks.
- Quotation marks cannot be used as part of the string.
- Control characters are not allowed in strings.

Language Configuration

In order for the printer to correctly interpret the PJL commands that are sent to it, the printer must recognize or be told which language to use to process the job. Three methods of language switching can be used.

- **Explicit Language Selection—**This is the recommended method of switching languages and involves the use of the ENTER LANGUAGE command to notify the printer of the language to be used.

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- **Implicit Language Selection—**If the ENTER LANGUAGE command is not used, the printer uses the language set as the default language. This method works fine as long as the default language is the same language as the job sent to the printer. If the PERSONALITY variable is set to AUTO, and no ENTER command is received, Context Language Selection (described next) is used instead of Implicit Language Selection.
- **Context Language Selection—**When the printer is configured to automatically select the language of incoming jobs and the ENTER LANGUAGE command is not used to identify the job language, the printer samples the incoming data and chooses a language based on its interpretation of the sampled data.

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6.3 Issuing PJL Commands

Introduction

The following chapters in this guide describe the PJL commands, their variables, and their functions. This chapter looks at the common methods of sending the PJL command jobs to the printer and receiving readback responses from the printer.

Sending PJL Commands to the Printer

The three most common methods used to send PJL commands to the printer are

- Creating an ASCII file containing the PJL commands and copying this file to your printer. Use this method if you want to send configuration changes to the printer and don't require readback responses from the printer.

  You can also modify your Autoexec.bat file to copy the ASCII file to the printer each time you boot your workstation.

- Embedding PJL commands in an application during development. This method allows application developers to take advantage of the commands and readback status of the printer to customize application functions that interact with the printer.

  Due to the extensive variations in application development, this method is not documented in detail in this Guide.

- Using a utility software application that handles the bidirectional communication necessary to send and receive information from the printer.

Copying ASCII Files to the Printer

This section describes one method of creating and sending an ASCII file containing PJL commands to your printer from a workstation running a Windows Operating System.

1 From the Start menu, choose Run.

2 Type `edit` and then select OK.

The MS-DOS Editor opens.

3 Enter the following on the first line of the new file you are creating.

```
<ESC>%-12345X@PJL
```

To create the <ESC> character, hold down the CTRL *key and select the* P *key, and then press the Esc key.*

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4 On the following lines, enter the PJL commands you want to send to the printer. See the additional chapters in this guide for information about the PJL commands supported.

5 On the last line of your file, enter

```
<ESC>%-12345X
```

6 Save the file.

7 Copy the file you just saved to the printer using the DOS `copy/b` command.

Including PJL Commands in Applications

By including PJL commands in the application that you're developing, you can take control of most printing configuration settings and retrieve printer information without having to call on another application. Refer to the Hewlett-Packard *Printer Job Language Technical Reference Manual* for additional information.

Using Utility Software

Some utility software allows you to communicate with your printer, including sending PJL commands and receiving status readback. Depending on your utility application, you may be able to perform one or more functions using the utility's built-in tools rather than directly entering PJL commands.

Example: KONICA MINOLTA Status Monitor

This utility, which comes with the printer on CD-ROM, uses the PJL readback commands to monitor and display the printer's current status. This utility provides additional features but serves as a good example of practical use of PJL commands in an application.

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PJL Commands 6.4

Introduction

The PJL commands supported by your printer are identified and described in this chapter. PJL commands are identified first and then followed by the definition of environmental variables.

The commands and variables in the following sections are listed by name and in alphabetical order.

Commands

Command	DEFAULT
Syntax	`@PJL DEFAULT [LPARM : personality | IPARM : port] variable = value [<CR>]<LF>`
Description	This command can be used to change the User Default Settings of the printer. DEFAULT is used with environmental variables to set the user default value of a printer parameter. See the “Environmental Variables” on page 301 for a listing of variables that are available for your printer.
Notes	*The User Default Settings are also configurable from the printer’s control panel. Using the DEFAULT command does not affect the Factory Default Settings of the printer.* *Changes to the Default Settings are not activated until a RESET command has been executed. See the RESET command on page 299 for more information.*

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Command	**ENTER**
Syntax	`@PJL ENTER LANGUAGE = personality [<CR>]<LF>`
Description	This kernel command is used when setting the printer language for the language used in the current print job. *Personality* is the language of the print job, such as Lineprinter, PCL, or PostScript.
Notes	*Immediately following the <LF> code on the ENTER command line, the printer assumes the language specified by the personality to process the current print job. The printer will continue to treat the job in the new language until another ENTER command or an <UEL> command is found.* *If the PERSONALITY variable is set to AUTO and no ENTER command is received, the printer uses the default language or the language that best fits the format of the data being received. It's recommended that you use the ENTER command to set the appropriate language if you know it.*

Command	**EOJ**
Syntax	`@PJL EOJ [NAME = "job name"] [<CR>]<LF>`
Description	This command indicates the end of the current print job. The optional Name variable should be used if the JOB command used this option to name the print job.
Notes	*This command must be used in conjunction with the JOB command. Don't use the JOB or the EOJ command separately.*

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Command	**FILE**
Syntax	`@PJL FILE [DRIVE = "number"] [NAME = "file name"] [PASSWORD = "string"][<CR>]<LF>`
Description	This command prints a PCL or PostScript file.
Notes	*The ranges and default settings for the optional parameters shown in the Syntax are:* **DRIVE** Range: 0–3 Default: 0 **PASSWORD** Range: ASCII 33-255,<SP>,<HT> Default: None **NAME** Range: ASCII 33-255,<SP>,<HT> (Maximum 80 characters) Default: None

Command	**INITIALIZE**
Syntax	`@PJL INITIALIZE [<CR>]<LF>`
Description	This command is used to reset the PJL variables to their Factory Default Settings.
Notes	*To reset the PJL variables to the User Default values, use the DEFAULT command instead of the INITIALIZE command.*

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Command	JOB
Syntax	`@PJL JOB [NAME = "job name"][START = first page][END = last page][PASSWORD = number][<CR>]<LF>`
Description	The JOB command signifies the beginning of a new PJL job to the printer. This command should be used with the EOJ command to frame the PJL job to prevent multiple PJL jobs from being treated as one job.
Notes	*The ranges and default settings for the optional parameters shown in the Syntax are:* **NAME** Range: ASCII 33-255,<SP>,<HT> (80 characters maximum) Default: N/A **START** Range: 1-2,147,483,647 Default: 1 **END** Range: 1-2,147,483,647 Default: All **PASSWORD** Range: 0–65,535 Default: 0 *The use of these parameters is optional.* *Always use the JOB command with the EOJ command.*

Command	PJL
Syntax	`@PJL`
Description	This command signals the printer to use its PJL parser to interpret the following command lines.
Notes	*This command must always immediately follow the <UEL> command (with no white space between these two commands).*

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Command	**SET**
Syntax	`@PJL SET [LPARM : Personality | IPARM : port] variable = value [<CR>]<LF>`
Description	This command sets the command settings to the user default settings.
Notes	*The SET and RESET commands affect only the current job.*

Command	**SET**
Syntax	`@PJL SET [parameter] [value] [<CR>]<LF>`
Description	This command sets accounting information.
Notes	*The functions and ranges for the optional parameters shown in the Syntax are:* **CHARGENUMBER** Function: Sets the job-specific charge number for accounting purposes. Range: "*string*" (Maximum of 8 characters) **HOST** Function: Sets the job-specific level host name for accounting purposes. Range: "*string*" (Maximum of 16 characters) **USERNAME** Function: Assigns a user name. Range: "*string*" (Maximum of 64 characters) **NOTIFY** Function: Sets the point in job processing for email notification. Range: "JOBEND" **EMAILADDRESS** Function: Sets the email address. Range: "*string*" (maximum of 128 characters)

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Command	**RESET**
Syntax	`@PJL RESET [<CR>]<LF>`
Description	This command resets the command settings to the user default settings.
Notes	*The SET and RESET commands affect only the current job.*

Command	**TEST**
Syntax	`@PJL TEST [PRINT = "number"][<CR>]<LF>`
Description	This command prints a test file.
Notes	*The ranges for the optional parameters shown in the Syntax are:* **PRINT** Range: 0 (Statistics Page) 1 (Configuration Page) 2 (Font List) 3 (Demo Page) 4 (Registration Page) 5 (Menu Map) 6 (Directory List)

Command	**UEL**
Syntax	`<ESC>%-12345X`
Description	Universal Exit Language (UEL) signals the printer to exit the current printer language and begin PJL dialog.
Notes	*See "Universal Exit Language (<UEL>) Usage" in chapter 6.2 for more information.*

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Command	**UPDATE**
Syntax	`@PJL UPDATE [KIND = "number"][ADRS = "hex-string"][LEN = "hex-string"][SUM = "hex-string"][ADRS2 = "hex-string"][LEN2 = "hex-string"][SUM2 = "hex-string"] [<CR>]<LF> <Firmware Data>`
Description	This command updates the printer firmware.
Notes	*The ranges and default settings for the optional parameters shown in the Syntax are:* **KIND** Range: 1 (Mechanical control firmware), 2 (Boot firmware), 3 (Controller firmware) Default: None **ADRS (Required only with KIND = 2)** Range: N/A (Maximum of 8 characters) Default: None **LEN** Range: N/A (Maximum of 8 characters) Default: None **SUM** Range: N/A (Maximum of 8 characters) Default: None **ADRS2 (Required only with KIND = 2)** Range: N/A (Maximum of 8 characters) Default: None **LEN2 (Required only with KIND = 2)** Range: N/A (Maximum of 8 characters) Default: None **SUM2 (Required only with KIND = 2)** Range: N/A (Maximum of 8 characters) Default: None ***<Firmware Data>*** Range: Firmware data Default: None

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Environmental Variables

Environmental variables are used in conjunction with other PJL commands to control printer configuration and to retrieve specific information from the printer. See the previous section for a description of the PJL commands that your printer supports.

Changing Printer Environment Parameters

The printing environment is defined as the current printer configuration. Environmental variables are used to configure the printer's parameters in the printing environment. There are 4 types of printing environments that you will be working with when using PJL commands:

- Modified—This environment is established when the ENTER LANGUAGE command is sent to the printer to change the printer language.
- PJL—This environment consists of the configuration changes established by the parameters sent in the PJL command lines for the current job.
- User Default—User default configurations occur when one or more of the Factory default configuration settings are changed and saved as the default printer configuration. These changes can be made and saved via the printer's controls panel, using a printer management utility application (for example, PageScope Light), or by using the DEFAULT command. Typically, the User default environment is configured to benefit the majority of users in a network to prevent making repetitive changes.
- Factory Default—This environment consists of the configuration settings that are set by the printer manufacturer. Factory default settings are permanent and can be applied at any time using the INITIALIZE command.

The following pages contain the Environmental Variables that are supported by your printer. For additional information about Environmental Variables, or for information about PJL variables not supported by your printer, consult the Hewlett-Packard Printer Job Language Technical Reference Manual.

Variable	**AUTOCONT**
Choices/ Range	OFF ON
Description	Returns the autocontinue configuration.

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Variable	BINDING
Choices/ Range	LONGEDGE SHORTEDGE
Description	Controls the duplex settings that are available. Use this variable with the Duplex variable.

Variable	COPIES
Choices/ Range	1-999
Description	Controls the number of uncollated copies that are printed. Use the QTY variable for collated copies.

Variable	DUPLEX
Choices/ Range	OFF ON
Description	Controls the duplex settings that are available. When set to ON, duplex printing is enabled. Use this variable with the BINDING variable.

Variable	MEDIASOURCE
Choices/ Range	TRAY1 TRAY2 TRAY3 TRAY4 MANUALFEED
Description	Controls the tray selection for the current job.

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Variable	MEDIATYPE
Choices/ Range	LABEL PAPER THICKSTOCK TRANSPARENCY
Description	Sets the default media type for the current job.

Variable	NUP
Choices/ Range	1 2 4 6 9 16
Description	Sets the number of pages printed on each sheet of media.

Variable	OUTPUT
Choices/ Range	UPPER
Description	Sets the default output bin.

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Variable	PAPER
Choices/ Range	A3 A4 A5 B4 B5 B5JIS B5ISO C5 C6 CHOKEI3 (CHOU #3) CHOKEI4 (CHOU #4) COM10 CUSTOM DL EXECUTIVE FOLIO GOVLEGAL GOVTLETTER JPOST KAI 8 (CHINESE8K) KAI 16 (CHINESE16K) KAI 32 (CHINESE32K) LEGAL LETTER MONARCH OVERSIZED SPFOLIO STATEMENT 8 x 10 11 x 17 12 x 18
Description	Sets media size.

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Variable	PERSONALITY
Choices/ Range	AUTO PDF POSTSCRIPT
Description	This variable identifies the personality for implicit switching. Implicit switching changes the current personality without using the @PJL ENTER command. *Selecting AUTO allows the printer to search for context clues in the job to decide which personality to assume.*

Variable	QTY
Choices/ Range	1-999
Description	Identifies the number of collated copies for the current job. Use the COPY variable for uncollated copies.

Variable	RESOLUTION
Choices/ Range	600 x 600 (6x6x1 dpi standard) 9600 x 600 (6x6x4 class dpi high)
Description	Sets the printing resolution in dots per inch (dpi) for the current job.

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Variable	TIMEOUT
Choices/ Range	`0-999` (seconds)
Description	Sets the time interval that the printer waits to receive data for the current print job. If the wait time exceeds the value set, the job ends and the printer is ready to accept other jobs.

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Status Codes 6.5

Introduction

This chapter describes the status codes that are returned following the transmission of @PJL INFO STATUS and USTATUS commands to the printer.

Status Codes

Category	Keypad Message	Status Code
Standard	CALIBRATING	10031
	CANCELING JOB	10007
	EXECUTING	10023
	LIGHT SLEEP	40000
	PROCESSING	10023
	READY	10001
	STANDBY MODE	35078
	UPDATING	None
	WAIT	None
	WARMING UP	10003
Warning	ADJUST MANL FEED	40026
	ADJUST TRAYS	40026
	ADJUST *Y*	40026
	ARE YOU SURE?	None
	COVER OPEN CHECK *Y*	40021
	FUSER LOW	40050
	FUSER MISSING CHECK UNIT	40050
	MANL FEED ERROR REMOVE MEDIA	40119
	MEDIA EMPTY ADD *X*	41xxx
	MEDIA JAM DUPLEX 1	40093

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Category	Keypad Message	Status Code
Warning (Continued)	MEDIA JAM DUPLEX 2	40022
	MEDIA JAM FUSER EXIT	40022
	MEDIA JAM MANUAL TRAY	40022
	MEDIA JAM SECOND TRANS	40022
	MEDIA JAM TRAY1	40022
	MEDIA JAM TRAY2	40022
	MEDIA JAM TRAY3	40022
	MEDIA JAM TRAY4	40022
	MEDIA JAM VERTICAL TRANS	40022
	MEDIA JAM *Y*	40022
	MEDIA SIZE ERR ADD *Y*	40096, 40146
	MEDIA SIZE ERROR	40096, 40146
	MEMORY FULL PRESS CONTINUE	None
	NO MANUAL FEED	40026
	NO MANUAL FEED CHECK UNIT	40026
	NO TRAY *n*	40026
	OUTPUT FULL REMOVE MEDIA	None
	PRINT UNIT END REPLACE KCMY	40038
	PRINT UNIT ERROR REPLACE KCMY	40038
	P-UNIT DETECT	40038

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Category	Keypad Message	Status Code
Warning (Continued)	P-UNIT LOW KCMY	40038
	P-UNIT MISSING CHECK KCMY	40038
	TONER EMPTY REPLACE KCMY	40038
	TONER LOW KCMY	40038
	TRANS. BELT LOW	40131
	TRAY*X* EMPTY	41xxx
	WASTE NEAR FULL	40141
	WASTE TONER ERR REPLACE BOX	40141
	WASTE TONER FULL REPLACE BOX	40141
	Y EMPTY ADD *X*	41xxx
Service Call	SERVICE CALL *N X*	50xxx

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DOC Matrix 6.6

Introduction

This chapter is for users making the transition from DOC commands to PJL commands. In this chapter you'll find common DOC commands and their nearest equivalent in PJL commands. For information on PJL commands referenced in this chapter, see "PJL Commands" on page 293.

DOC/PJL Command Matrix

Not all DOC commands have an equivalent PJL command, and not all PJL commands are supported by your printer. If there is no equivalent PJL command, **Unsupported** *appears in the PJL column. In cases where a custom PJL command has been developed for the DOC equivalent,* **Custom** *appears in the PJL column. If there is a PJL equivalent but the command isn't supported by your printer,* **Unsupported** *appears in the* magicolor 7300 *column.*

Unless otherwise noted, start all PJL command lines with @PJL (for example, @PJL SET CHARGENUMBER).

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Header/Trailer Page Commands		
DOC	**PJL**	**magicolor 7300**
%%IncludeFeature:header		Unsupported
%%IncludeFeature:trailer		Unsupported

Header/Trailer Information Commands		
DOC	**PJL**	**magicolor 7300**
%%Charge Number	SET CHARGENUMBER	Supported
%%Creator		Unsupported
%%CreationDate		Unsupported
%%Date		Unsupported
%%For	SET USERNAME	Supported
%%Host	SET HOST	Supported
%%Title	JOB NAME	Supported
%%Version		Unsupported

Document Control Commands		
DOC	**PJL**	**magicolor 7300**
%%IncludeFeature	@PJL	Use @PJL by itself on a command line.
%%Pages		Unsupported
%%EndComments		Unsupported
%%EndOfDocument	EOJ	Supported
<ESC>%-12345X	<ESC>%-12345X	Supported
%%Sessions	JOB	Supported
%%Notify	SET NOTIFY=JOBEND SET EMAILADDRESS	Supported

Document Formatting Commands		
DOC	**PJL**	**magicolor 7300**
%%IncludeFeature:binding	SET BINDING	Supported
%%IncludeFeature:booklet		Unsupported
%%IncludeFeature:collate	SET QTY	Supported
%%IncludeFeature:colormodel		Unsupported

Document Formatting Commands		
DOC	**PJL**	**magicolor 7300**
%%IncludeFeature:copies	SET COPIES	Supported
%%IncludeFeature:duplex	SET DUPLEX	Supported
%%IncludeFeature:emulation	ENTER LANGUAGE	Supported
%%IncludeFeature:input	SET MEDIASOURCE	Supported
%%IncludeFeature:mediatype	SET MEDIATYPE	Supported
%%IncludeFeature:newlayout	JOB	Supported
%%IncludeFeature:offset		Unsupported
%%IncludeFeature:orientation		Unsupported
%%IncludeFeature:output	SET OUTPUT	Supported
%%IncludeFeature:pagegrid	SET NUP	Supported
%%IncludeFeature:pageoffsets		Unsupported
%%IncludeFeature: pageorientation		Unsupported
%%IncludeFeature:pagerange	JOB START=# END=#	Supported
%%IncludeFeature:pagescaling		Unsupported
%%IncludeFeature:pagesize	SET PAPER	Supported
%%IncludeFeature:quality		Unsupported
%%IncludeFeature:resolution	SET RESOLUTION	Supported
%%IncludeFeature:staple		Unsupported

HP PCL Commands		
DOC	**PJL**	**magicolor 7300**
%%IncludeFeature:criscrlf		Unsupported
%%IncludeFeature:font		Unsupported
%%IncludeFeature:install		Unsupported—use Download Manager
%%IncludeFeature:lfiscrlf		Unsupported
%%IncludeFeature:pointsize		Unsupported
%%IncludeFeature:remove		Unsupported—use Download Manager
%%IncludeFeature:symbolset		Unsupported

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Lineprinter Commands		
DOC	**PJL**	**magicolor 7300**
%%IncludeFeature:autowrap		Unsupported
%%IncludeFeature:criscrlf		Unsupported
%%IncludeFeature:ffiscrlf		Unsupported
%%IncludeFeature:font		Unsupported
%%IncludeFeature:linesper-page		Unsupported
%%IncludeFeature:lpmargins		Unsupported
%%IncludeFeature:lporientation		Unsupported
%%IncludeFeature:lsiscrlf		Unsupported
%%IncludeFeature:map		Unsupported
%%IncludeFeature:number		Unsupported
%%IncludeFeature:pointsize		Unsupported
%%IncludeFeature:tabs		Unsupported

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DOC	**PJL**	**magicolor 7300**
%%IncludeFeature:autorotation		Unsupported
%%IncludeFeature:autorotation		Unsupported
%%IncludeFeature:autoscaling		Unsupported

TIFF Commands		
DOC	**PJL**	**magicolor 7300**
%%IncludeFeature:autoscaling		Unsupported
%%IncludeFeature:sheetsel		Unsupported
%%IncludeFeature:tag		Unsupported

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